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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JUL 28	CA/CAplus patent coverage enhanced
NEWS 3	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 4	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 5	JUL 28	STN Viewer performance improved
NEWS 6	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS 7	AUG 13	CA/CAplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS 8	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS 9	AUG 15	CAplus currency for Korean patents enhanced
NEWS 10	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS 11	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS 12	SEP 25	CA/CAplus current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS 13	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and and Korean patents enhanced
NEWS 14	SEP 29	IFICLS enhanced with new super search field
NEWS 15	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS 16	SEP 30	CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents
NEWS 17	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS 18	OCT 07	Multiple databases enhanced for more flexible patent number searching
NEWS 19	OCT 22	Current-awareness alert (SDI) setup and editing enhanced
NEWS 20	OCT 22	WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT Applications
NEWS 21	OCT 24	CHEMLIST enhanced with intermediate list of pre-registered REACH substances

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

Updated Search

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 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
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STRUCTURE FILE UPDATES:   24 OCT 2008  HIGHEST RN 1065816-63-8
DICTIONARY FILE UPDATES:  24 OCT 2008  HIGHEST RN 1065816-63-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

  Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
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http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\e-Red
Folder\10524345\577.str

L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
```

Updated Search

stn

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 00:33:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
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FULL SCREEN SEARCH COMPLETED - 37 TO ITERATE

100.0% PROCESSED 37 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

L3 14 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 181.12 181.33

FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
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FILE COVERS 1907 - 27 Oct 2008 VOL 149 ISS 18
FILE LAST UPDATED: 26 Oct 2008 (20081026/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

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stn

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 3 L3

=> s l4 and lim, z?/au
41 LIM, Z?/AU
L5 1 L4 AND LIM, Z?/AU

=> d l5, ibib abs hitstr, 1

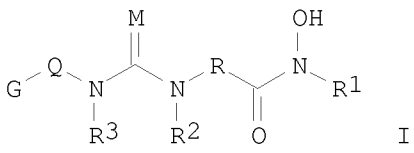
L5 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:395258 HCAPLUS
DOCUMENT NUMBER: 142:446921
TITLE: A preparation of acylurea- and sulfonylurea-connected hydroxamates, useful as histone deacetylase (HDAC) inhibitors
INVENTOR(S): Lim, Ze-Yi; Wang, Haishan; Zhou, Yan
PATENT ASSIGNEE(S): Sbio Pte. Ltd., Singapore
SOURCE: PCT Int. Appl., 145 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2005040101	A1	20050506	WO 2004-SG353		20041026
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2004284030	A1	20050506	AU 2004-284030		20041026
CA 2543570	A1	20050506	CA 2004-2543570		20041026
EP 1685094	A1	20060802	EP 2004-775672		20041026
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK					
JP 2007509930	T	20070419	JP 2006-537946		20041026
MX 2006PA04735	A	20061214	MX 2006-PA4735		20060427
US 20080070954	A1	20080320	US 2007-577462		20070927
PRIORITY APPLN. INFO.:			US 2003-514013P	P	20031027
			WO 2004-SG353	W	20041026

OTHER SOURCE(S): CASREACT 142:446921; MARPAT 142:446921
GI

Updated Search

stn



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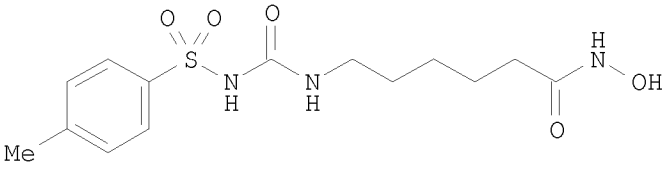
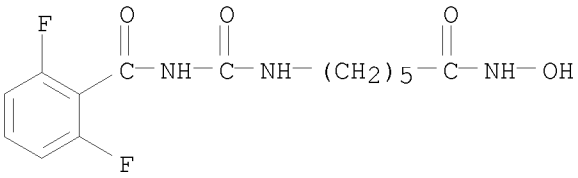


II

AB The invention relates to a preparation of acylurea- and sulfonylurea-connected hydroxamates of formula I [wherein: R is a linking moiety; R1 is H, alkyl, or acyl; M is O, S, NH, NOH, or N(alkyl), etc.; R2 and R3 are independently selected from H, halogen, alkyl, alk(en/yn)yl, or heteroalkyl, etc.; Q is SO2, C(O), or C(S); G is (cyclo)alkyl, (hetero)aryl, or arylalkyl, etc.], useful as HDAC inhibitors. For instance, hexanoic acid derivative II [IC50 (μM): HDAC1 - >100, HDAC8 - 0.79] was prepared from Me 6-aminohexanoate hydrochloride and phenylsulfonyl isocyanate with a yield of 58%.

IT 1044042-90-1 1044043-10-8
RL: PRPH (Prophetic)
(A preparation of acylurea- and sulfonylurea-connected hydroxamates, useful as histone deacetylase (HDAC) inhibitors)

RN 1044042-90-1 HCAPLUS
CN Benzamide, 2,6-difluoro-N-[[[6-(hydroxyamino)-6-oxohexyl]amino]carbonyl]- (CA INDEX NAME)



RN 1044043-10-8 HCAPLUS
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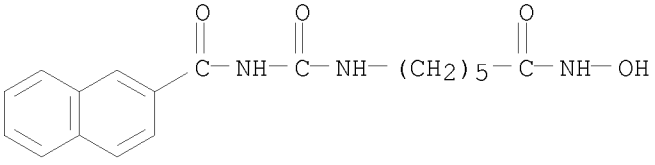

Updated Search

stn

IT 851365-34-9P 851365-36-1P 851365-37-2P
851365-41-8P 851365-43-0P 851365-45-2P
851365-46-3P 851365-48-5P 851365-49-6P
851365-50-9P 851365-70-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of acylurea- and sulfonylurea-connected hydroxamates useful as HDAC enzyme inhibitors)

RN 851365-34-9 HCAPLUS
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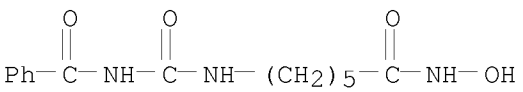

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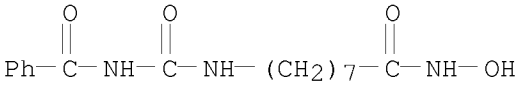

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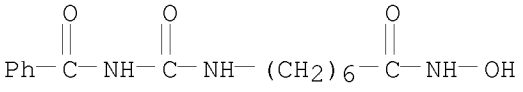

RN 851365-41-8 HCAPLUS
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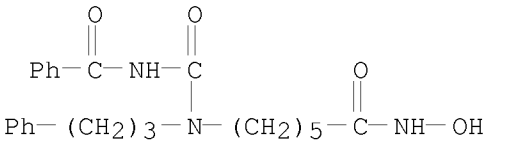

RN 851365-43-0 HCAPLUS
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Updated Search

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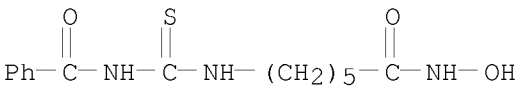
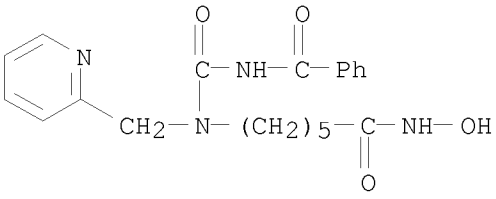


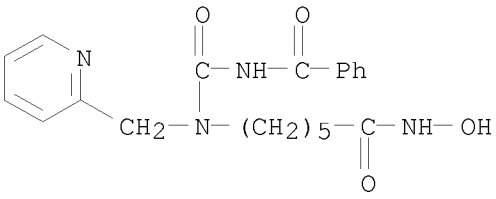
RN 851365-45-2 HCAPLUS
CN Benzamide, N-[[[6-(hydroxyamino)-6-oxohexyl](2-pyridinylmethyl)amino]carbonyl]- (CA INDEX NAME)



RN 851365-46-3 HCAPLUS
CN Benzamide, N-[[[6-(hydroxyamino)-6-oxohexyl](2-pyridinylmethyl)amino]carbonyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

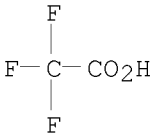
CM 1

CRN 851365-45-2
CMF C20 H24 N4 O4



CM 2

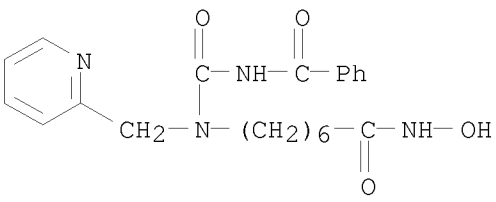
CRN 76-05-1
CMF C2 H F3 O2



RN 851365-48-5 HCAPLUS
CN Benzamide, N-[[[7-(hydroxyamino)-7-oxoheptyl](2-pyridinylmethyl)amino]carbonyl]- (CA INDEX NAME)

Updated Search

stn



RN 851365-49-6 HCAPLUS
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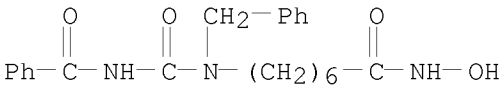

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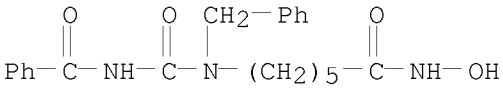
CN Benzamide, N-[[[6-(hydroxyamino)-6-oxohexyl](phenylmethyl)amino]carbonyl]- (CA INDEX NAME)



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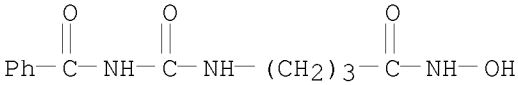

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1 STRUCTURE UPLOADED
L2 0 S L1
L3 14 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4 3 S L3

Updated Search

stn

L5 1 S L4 AND LIM, Z?/AU

=> s l4 not l5
L6 2 L4 NOT L5

=> s l6 and wang, h?/au
51308 WANG, H?/AU
L7 0 L6 AND WANG, H?/AU

=> s l6 and zhou, y?/au
21640 ZHOU, Y?/AU
L8 0 L6 AND ZHOU, Y?/AU

=> d l6, ibib abs hitstr, 1-2

L6 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:1447760 HCAPLUS
DOCUMENT NUMBER: 148:85678
TITLE: Solid oral dosage form containing deacetylase inhibitor and an enhancer
INVENTOR(S): Leonard, Thomas W.; O'Toole, Edel; Feeney, Orlagh
PATENT ASSIGNEE(S): Merrion Research II Limited, Ire.
SOURCE: U.S. Pat. Appl. Publ., 38pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070292512	A1	20071220	US 2007-761233	20070611
WO 2007146234	A2	20071221	WO 2007-US13693	20070611
WO 2007146234	A3	20080228		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

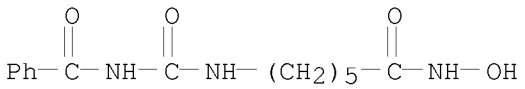
PRIORITY APPLN. INFO.: US 2006-812523P P 20060609

AB The invention relates to a pharmaceutical composition, particularly oral dosage forms, comprising a DAC inhibitor in combination with an enhancer to promote absorption of the DAC inhibitor at the GIT cell lining. The enhancer is a medium-chain fatty acid or derivative thereof having a carbon chain length of 6-20 carbon atoms. In certain embodiments, the solid oral dosage form is a controlled-release dosage form such as a delayed-release dosage form. Thus, a sustained-release tablet was prepared containing sodium caprylate 65.7%, heparin 13.3%, silica dioxide 0.5%, magnesium stearate 0.5%, and mannitol 20.0%.

Updated Search

stn

IT 851365-34-9
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(solid oral dosage form containing deacetylase inhibitor and an enhancer)
RN 851365-34-9 HCAPLUS
CN Benzamide, N-[[[6-(hydroxyamino)-6-oxohexyl]amino]carbonyl]- (CA INDEX NAME)

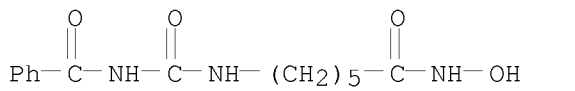


L6 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:206787 HCAPLUS
DOCUMENT NUMBER: 146:287512
TITLE: Development and validation of high-performance liquid chromatography-tandem mass spectrometry assay for 6-(3-benzoyl-ureido)-hexanoic acid hydroxyamide, a novel HDAC inhibitor, in mouse plasma for pharmacokinetic studies
AUTHOR(S): Yeo, Pauline; Xin, Liu; Goh, Evelyn; New, Lee Sun; Zeng, Peizi; Wu, Xiaofeng; Venkatesh, P.; Kantharaj, Ethirajulu
CORPORATE SOURCE: Department of Pharmacokinetics and Drug Metabolism, SBIO Pte Ltd, Singapore, 117528, Singapore
SOURCE: Biomedical Chromatography (2007), 21(2), 184-189
CODEN: BICHE2; ISSN: 0269-3879
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A liquid chromatog./tandem mass spectrometric method for the quantification of 6-(3-benzoyl-ureido)-hexanoic acid hydroxyamide (EX-2), a novel histone deacetylase (HDAC) inhibitor, in mouse plasma was developed to support inhouse pharmacokinetic (PK) studies in the lead optimization stage. In order to determine the PK parameters for EX-2 in comparison to other HDAC inhibitors such as Suberoylanilide hydroxamic acid (SAHA), PXD-101, and LBH-589, which are currently in different stages of clin. trials, research-grade bio-anal. method validations were carried out for EX-2 and these reference HDAC inhibitors, which were synthesized by inhouse medicinal chemists. The components of validation consisted of specificity, extraction efficiency, signal-response of calibration stds., lower limit of quantification, autosampler stability, and accuracy and precision of quality control samples. The validated LC/MS/MS methods were accurate and precise. The calibration curve ranged from 1 to 1600 ng/mL for all the analytes. The methods developed were used to quantify EX-2 and other HDAC inhibitors in mouse plasma obtained from pharmacokinetic studies. The results suggest that EX-2 has better PK parameters compared with the reference drugs and is a promising drug development candidate.
IT 851365-34-9, EX 2
RL: ANT (Analyte); PKT (Pharmacokinetics); ANST (Analytical study); BIOL (Biological study)
(development and validation of HPLC-tandem mass spectrometry assay for (benzoylureido)hexanoic acid hydroxyamide in mouse plasma for pharmacokinetic studies)

Updated Search

stn

RN 851365-34-9 HCAPLUS
CN Benzamide, N-[[[6-(hydroxyamino)-6-oxohexyl]amino]carbonyl]- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	19.04	200.37

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.40	-2.40

FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database clusters.

- November 22, 2008 - removed from database clusters
- December 31, 2008 - removed from STN

Content previously available only in CAOLD is now available in CA/CAplus. To learn more about the options available for transferring saved search queries and answer sets to CA/CAplus, contact your STN Service Center.

=> d his

Updated Search

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stn


     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1             STRUCTURE UPLOADED
L2           0 S L1
L3          14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4           3 S L3
L5           1 S L4 AND LIM, Z?/AU
L6           2 S L4 NOT L5
L7           0 S L6 AND WANG, H?/AU
L8           0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008

=> s l3
L9           0 L3

=> fil reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   0.46     200.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -2.40

FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   24 OCT 2008  HIGHEST RN 1065816-63-8
DICTIONARY FILE UPDATES:  24 OCT 2008  HIGHEST RN 1065816-63-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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Uploading C:\Documents and Settings\brobinson1\My Documents\e-Red
Folder\10524345\sdfaeat.str


Updated Search
```

```
stn



L10     STRUCTURE UPLOADED

=> s l10
SAMPLE SEARCH INITIATED 00:38:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      337 TO ITERATE

100.0% PROCESSED      337 ITERATIONS                                3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         5639 TO     7841
PROJECTED ANSWERS:               3 TO      163

L11           3 SEA SSS SAM L10

=> s l10 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 00:38:16 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     6846 TO ITERATE

100.0% PROCESSED     6846 ITERATIONS                              66 ANSWERS
SEARCH TIME: 00.00.01

L12          66 SEA SSS FUL L10

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1              STRUCTURE UPLOADED
L2            0 S L1
L3           14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4            3 S L3
L5            1 S L4 AND LIM, Z?/AU
L6            2 S L4 NOT L5
L7            0 S L6 AND WANG, H?/AU
L8            0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9            0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10             STRUCTURE UPLOADED
L11           3 S L10
L12          66 S L10 FULL

=> s l12 not l3
L13         66 L12 NOT L3

=> file hcaplus



Updated Search
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stn

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	180.66	381.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.40

FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 27 Oct 2008 VOL 149 ISS 18
FILE LAST UPDATED: 26 Oct 2008 (20081026/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l13
L14 1 L13

=> d l14, ibib abs fhitstr, 1

L14 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:395258 HCAPLUS
DOCUMENT NUMBER: 142:446921
TITLE: A preparation of acylurea- and sulfonylurea-connected hydroxamates, useful as histone deacetylase (HDAC) inhibitors
INVENTOR(S): Lim, Ze-Yi; Wang, Haishan; Zhou, Yan
PATENT ASSIGNEE(S): Sbio Pte. Ltd., Singapore
SOURCE: PCT Int. Appl., 145 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

Updated Search

stn

WO 2005040101	A1	20050506	WO 2004-SG353	20041026
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
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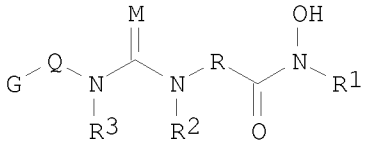
MX 2006PA04735	A	20061214	MX 2006-PA4735	20060427
US 20080070954	A1	20080320	US 2007-577462	20070927
PRIORITY APPLN. INFO.:			US 2003-514013P P	20031027
			WO 2004-SG353 W	20041026

OTHER SOURCE(S): CASREACT 142:446921; MARPAT 142:446921

GI



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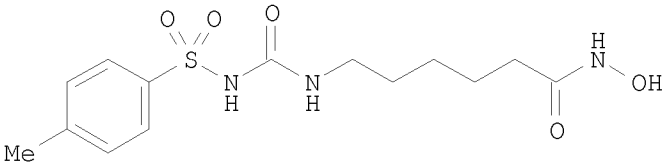


II

AB The invention relates to a preparation of acylurea- and sulfonylurea-connected hydroxamates of formula I [wherein: R is a linking moiety; R1 is H, alkyl, or acyl; M is O, S, NH, NOH, or N(alkyl), etc.; R2 and R3 are independently selected from H, halogen, alkyl, alk(en/yn)yl, or heteroalkyl, etc.; Q is SO2, C(O), or C(S); G is (cyclo)alkyl, (hetero)aryl, or arylalkyl, etc.], useful as HDAC inhibitors. For instance, hexanoic acid derivative II [IC50 (μM): HDAC1 - >100, HDAC8 - 0.79] was prepared from Me 6-aminohexanoate hydrochloride and phenylsulfonyl isocyanate with a yield of 58%.

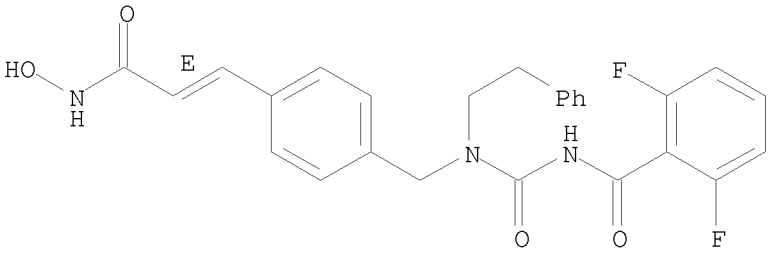
IT 1044042-89-8

Updated Search

stn

RL: PRPH (Prophetic)
(A preparation of acylurea- and sulfonylurea-connected hydroxamates, useful as histone deacetylase (HDAC) inhibitors)
RN 1044042-89-8 HCAPLUS
CN Benzamide, 2,6-difluoro-N-[[[[4-[(1E)-3-(hydroxyamino)-3-oxo-1-propen-1-yl]phenyl]methyl](2-phenylethyl)amino]carbonyl]- (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.14	389.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-3.20

FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database clusters.

Updated Search

stn

. November 22, 2008 - removed from database clusters
. December 31, 2008 - removed from STN

Content previously available only in CAOLD is now available in CA/CAplus. To learn more about the options available for transferring saved search queries and answer sets to CA/CAplus, contact your STN Service Center.

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=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1             STRUCTURE UPLOADED
L2           0 S L1
L3          14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4           3 S L3
L5           1 S L4 AND LIM, Z?/AU
L6           2 S L4 NOT L5
L7           0 S L6 AND WANG, H?/AU
L8           0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9           0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10            STRUCTURE UPLOADED
L11          3 S L10
L12         66 S L10 FULL
L13         66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14          1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008

=> s l13
L15          0 L13

=> file reg
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                               ENTRY    SESSION
FULL ESTIMATED COST                             0.46     390.09

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                             0.00      -3.20

FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
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Updated Search

stn

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 24 OCT 2008 HIGHEST RN 1065816-63-8
DICTIONARY FILE UPDATES: 24 OCT 2008 HIGHEST RN 1065816-63-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\e-Red
Folder\10524345\awerat.str

L16   STRUCTURE UPLOADED

=> s l16
SAMPLE SEARCH INITIATED 00:41:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   337 TO ITERATE

100.0% PROCESSED   337 ITERATIONS   3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 5639 TO   7841
PROJECTED ANSWERS: 3 TO   163

L17   3 SEA SSS SAM L16

=> s l16 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 00:41:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   6851 TO ITERATE

100.0% PROCESSED   6851 ITERATIONS   69 ANSWERS
SEARCH TIME: 00.00.01

L18   69 SEA SSS FUL L16

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008

Updated Search

stn

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L1              STRUCTURE UPLOADED
L2            0 S L1
L3           14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4            3 S L3
L5            1 S L4 AND LIM, Z?/AU
L6            2 S L4 NOT L5
L7            0 S L6 AND WANG, H?/AU
L8            0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9            0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10             STRUCTURE UPLOADED
L11           3 S L10
L12          66 S L10 FULL
L13          66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14           1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15           0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16             STRUCTURE UPLOADED
L17           3 S L16
L18          69 S L16 FULL

=> s l18 not l3
L19         69 L18 NOT L3

=> s l19 not l13
L20          3 L19 NOT L13

=> file hcaplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 179.74     569.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                   0.00      -3.20

FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
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Updated Search

stn

FILE COVERS 1907 - 27 Oct 2008 VOL 149 ISS 18
FILE LAST UPDATED: 26 Oct 2008 (20081026/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l20
L21 1 L20

=> d l21, ibib abs fhitstr, 1

L21 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:395258 HCAPLUS
DOCUMENT NUMBER: 142:446921
TITLE: A preparation of acylurea- and sulfonylurea-connected hydroxamates, useful as histone deacetylase (HDAC) inhibitors
INVENTOR(S): Lim, Ze-Yi; Wang, Haishan; Zhou, Yan
PATENT ASSIGNEE(S): Sbio Pte. Ltd., Singapore
SOURCE: PCT Int. Appl., 145 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005040101	A1	20050506	WO 2004-SG353	20041026
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004284030	A1	20050506	AU 2004-284030	20041026
CA 2543570	A1	20050506	CA 2004-2543570	20041026
EP 1685094	A1	20060802	EP 2004-775672	20041026
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				

Updated Search

stn

JP 2007509930	T	20070419	JP 2006-537946		20041026
MX 2006PA04735	A	20061214	MX 2006-PA4735		20060427
US 20080070954	A1	20080320	US 2007-577462		20070927
PRIORITY APPLN. INFO.:			US 2003-514013P	P	20031027
			WO 2004-SG353	W	20041026

OTHER SOURCE(S): CASREACT 142:446921; MARPAT 142:446921
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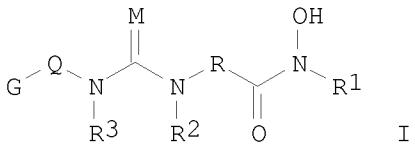

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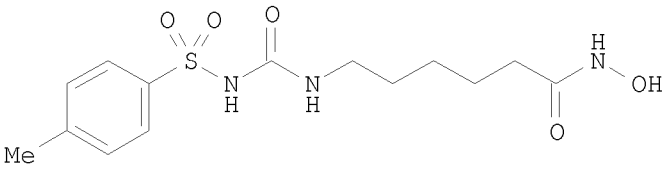


II

AB The invention relates to a preparation of acylurea- and sulfonylurea-connected hydroxamates of formula I [wherein: R is a linking moiety; R1 is H, alkyl, or acyl; M is O, S, NH, NOH, or N(alkyl), etc.; R2 and R3 are independently selected from H, halogen, alkyl, alk(en/yn)yl, or heteroalkyl, etc.; Q is SO2, C(O), or C(S); G is (cyclo)alkyl, (hetero)aryl, or arylalkyl, etc.], useful as HDAC inhibitors. For instance, hexanoic acid derivative II [IC50 (μM): HDAC1 - >100, HDAC8 - 0.79] was prepared from Me 6-aminohexanoate hydrochloride and phenylsulfonyl isocyanate with a yield of 58%.

IT 1044042-87-6
RL: PRPH (Prophetic)
(A preparation of acylurea- and sulfonylurea-connected hydroxamates, useful as histone deacetylase (HDAC) inhibitors)

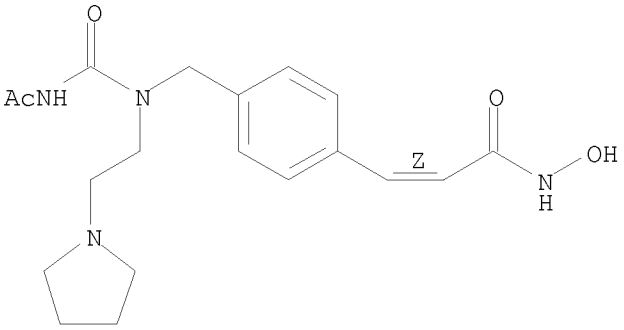
RN 1044042-87-6 HCAPLUS

CN 2-Propenamide, 3-[4-[[[(acetylamino)carbonyl][2-(1-pyrrolidinyl)ethyl]amino]methyl]phenyl]-N-hydroxy-, (2Z)- (CA INDEX NAME)

Double bond geometry as shown.

Updated Search

stn



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.14	577.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-4.00

FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database clusters.

- November 22, 2008 - removed from database clusters
- December 31, 2008 - removed from STN

Content previously available only in CAOLD is now available in CA/CAplus. To learn more about the options available for

Updated Search

```
stn


  transferring saved search queries and answer sets to CA/CAplus,
  contact your STN Service Center.

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1             STRUCTURE UPLOADED
L2           0 S L1
L3          14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4           3 S L3
L5           1 S L4 AND LIM, Z?/AU
L6           2 S L4 NOT L5
L7           0 S L6 AND WANG, H?/AU
L8           0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9           0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10            STRUCTURE UPLOADED
L11          3 S L10
L12         66 S L10 FULL
L13         66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14          1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15          0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16            STRUCTURE UPLOADED
L17          3 S L16
L18         69 S L16 FULL
L19         69 S L18 NOT L3
L20          3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21          1 S L20

     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008

=> s l20
L22          0 L20

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   0.46     578.43

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
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Updated Search
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stn

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STRUCTURE FILE UPDATES: 24 OCT 2008 HIGHEST RN 1065816-63-8
DICTIONARY FILE UPDATES: 24 OCT 2008 HIGHEST RN 1065816-63-8

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\e-Red
Folder\10524345\qqtqt.str

L23 STRUCTURE UPLOADED

=> s l23
SAMPLE SEARCH INITIATED 00:44:19 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 337 TO ITERATE

100.0% PROCESSED 337 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 5639 TO 7841
PROJECTED ANSWERS: 0 TO 0

L24 0 SEA SSS SAM L23

=> s l23 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 00:44:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6851 TO ITERATE

100.0% PROCESSED 6851 ITERATIONS 18 ANSWERS
SEARCH TIME: 00.00.01

Updated Search

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stn


L25          18 SEA SSS FUL L23

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1             STRUCTURE UPLOADED
L2           0 S L1
L3          14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4           3 S L3
L5           1 S L4 AND LIM, Z?/AU
L6           2 S L4 NOT L5
L7           0 S L6 AND WANG, H?/AU
L8           0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9           0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10            STRUCTURE UPLOADED
L11          3 S L10
L12         66 S L10 FULL
L13         66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14          1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15          0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16            STRUCTURE UPLOADED
L17          3 S L16
L18         69 S L16 FULL
L19         69 S L18 NOT L3
L20          3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21          1 S L20

     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22          0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23            STRUCTURE UPLOADED
L24          0 S L23
L25         18 S L23 FULL

=> s l25 not l13
L26         18 L25 NOT L13

=> s l25 not l3
L27         18 L25 NOT L3



Updated Search
```

stn

```
=> s l27 not l18
L28         18 L27 NOT L18

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     180.20     758.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -4.00

FILE 'HCAPLUS' ENTERED AT 00:45:00 ON 27 OCT 2008
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FILE COVERS 1907 - 27 Oct 2008  VOL 149 ISS 18
FILE LAST UPDATED: 26 Oct 2008  (20081026/ED)

HCAplus now includes complete International Patent Classification (IPC)
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 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l28
L29          1 L28

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1              STRUCTURE UPLOADED
L2            0 S L1
L3           14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4            3 S L3
L5            1 S L4 AND LIM, Z?/AU
L6            2 S L4 NOT L5
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Updated Search

stn

```
L7            0 S L6 AND WANG, H?/AU
L8            0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9            0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10             STRUCTURE UPLOADED
L11           3 S L10
L12          66 S L10 FULL
L13          66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14           1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15           0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16             STRUCTURE UPLOADED
L17           3 S L16
L18          69 S L16 FULL
L19          69 S L18 NOT L3
L20           3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21           1 S L20

     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22           0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23             STRUCTURE UPLOADED
L24           0 S L23
L25          18 S L23 FULL
L26          18 S L25 NOT L13
L27          18 S L25 NOT L3
L28          18 S L27 NOT L18

     FILE 'HCAPLUS' ENTERED AT 00:45:00 ON 27 OCT 2008
L29           1 S L28

=> s l29  not l21
L30           0 L29 NOT L21

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   2.69     761.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                   0.00      -4.00

FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
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Updated Search

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stn


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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES:   24 OCT 2008  HIGHEST RN 1065816-63-8
DICTIONARY FILE UPDATES:  24 OCT 2008  HIGHEST RN 1065816-63-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\e-Red
Folder\10524345\fdafagt.str

L31     STRUCTURE UPLOADED

=> s l31
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SAMPLE SCREEN SEARCH COMPLETED -       65 TO ITERATE

100.0% PROCESSED       65 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          817 TO     1783
PROJECTED ANSWERS:               1 TO       80

L32           1 SEA SSS SAM L31

=> s l31 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
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FULL SCREEN SEARCH COMPLETED -     1581 TO ITERATE

100.0% PROCESSED     1581 ITERATIONS                               23 ANSWERS
SEARCH TIME: 00.00.01

L33          23 SEA SSS FUL L31

=> d his
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Updated Search

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stn


     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

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L1             STRUCTURE UPLOADED
L2           0 S L1
L3          14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4           3 S L3
L5           1 S L4 AND LIM, Z?/AU
L6           2 S L4 NOT L5
L7           0 S L6 AND WANG, H?/AU
L8           0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9           0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10            STRUCTURE UPLOADED
L11          3 S L10
L12         66 S L10 FULL
L13         66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14          1 S L13

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L15          0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16            STRUCTURE UPLOADED
L17          3 S L16
L18         69 S L16 FULL
L19         69 S L18 NOT L3
L20          3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21          1 S L20

     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22          0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23            STRUCTURE UPLOADED
L24          0 S L23
L25         18 S L23 FULL
L26         18 S L25 NOT L13
L27         18 S L25 NOT L3
L28         18 S L27 NOT L18

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L29          1 S L28
L30          0 S L29  NOT L21

     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
L31            STRUCTURE UPLOADED



Updated Search
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stn

```
L32           1 S L31
L33          23 S L31 FULL

=> s l33 not l13
L34         23 L33 NOT L13

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                     179.74     941.06

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CA SUBSCRIBER PRICE                                       0.00      -4.00

FILE 'HCAPLUS' ENTERED AT 00:47:19 ON 27 OCT 2008
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FILE COVERS 1907 - 27 Oct 2008  VOL 149 ISS 18
FILE LAST UPDATED: 26 Oct 2008  (20081026/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l34
L35          12 L34

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1              STRUCTURE UPLOADED
L2            0 S L1
L3           14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4            3 S L3
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Updated Search

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stn


L5            1 S L4 AND LIM, Z?/AU
L6            2 S L4 NOT L5
L7            0 S L6 AND WANG, H?/AU
L8            0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9            0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10             STRUCTURE UPLOADED
L11           3 S L10
L12          66 S L10 FULL
L13          66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14           1 S L13

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L15           0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16             STRUCTURE UPLOADED
L17           3 S L16
L18          69 S L16 FULL
L19          69 S L18 NOT L3
L20           3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21           1 S L20

     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22           0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23             STRUCTURE UPLOADED
L24           0 S L23
L25          18 S L23 FULL
L26          18 S L25 NOT L13
L27          18 S L25 NOT L3
L28          18 S L27 NOT L18

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L30           0 S L29  NOT L21

     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
L31             STRUCTURE UPLOADED
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L33          23 S L31 FULL
L34          23 S L33 NOT L13

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L35          12 S L34

=> s l35 not l14
L36         11 L35 NOT L14



Updated Search
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stn

=> s l36 not l4
L37 9 L36 NOT L4

=> s l37 and lim, z?/au
41 LIM, Z?/AU
L38 0 L37 AND LIM, Z?/AU

=> s l37 and wang, h?/au
51308 WANG, H?/AU
L39 0 L37 AND WANG, H?/AU

=> s l37 and zhou, y?/au
21640 ZHOU, Y?/AU
L40 0 L37 AND ZHOU, Y?/AU

=> d l37, ibib abs hitstr, 1-9

L37 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:411563 HCAPLUS
DOCUMENT NUMBER: 140:391128
TITLE: Preparation of β-aminohydroxamic acids as peptide deformylase (PDF) inhibitors and their medical use
INVENTOR(S): Takayama, Wataru; Shirasaki, Masahisa; Inoue, Atsushi
PATENT ASSIGNEE(S): Senju Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 44 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

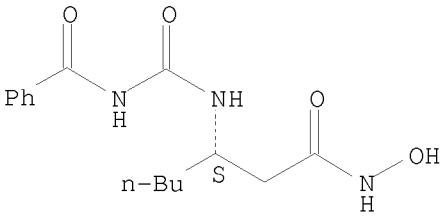
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004143053	A	20040520	JP 2002-307534	20021022

PRIORITY APPLN. INFO.: JP 2002-307534 20021022
OTHER SOURCE(S): MARPAT 140:391128
AB R2LG1NHCHR1CH2CONHOH [R1 = C1-5 linear or branched alkyl; R2 = (un)substituted aromatic hydrocarbyl, (un)substituted heterocyclyl; G1 = CO, SO2; L = G2NH, (CH2)n, CONR4CHR3, etc.; G2 = CO, SO2, bond; n = 0, 1; R3, R4 = H, C4-6 alkyl, R3R4 may be bonded to form C3-7 alkylene] or their salts, useful for inhibition of drug-resistant bacteria, are prepared Thus, amidation of (3S)-3-aminoheptanoic acid benzyloxyamide HCl salt with 2-naphthoyl chloride and hydrogenation of the product gave (1S)-naphthalene-2-carboxylic acid [1-(hydroxycarbamoylmethyl)pentyl]amide, which inhibited Ni-PDF from Escherichia coli with IC50 value of 4.656 μM.
IT 688002-83-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of β-aminohydroxamic acids as peptide deformylase inhibitors and antibacterial agents)
RN 688002-83-7 HCAPLUS
CN Benzamide, N-[[[(1S)-1-[2-(hydroxyamino)-2-oxoethyl]pentyl]amino]carbonyl]- (CA INDEX NAME)

Updated Search

stn

Absolute stereochemistry.

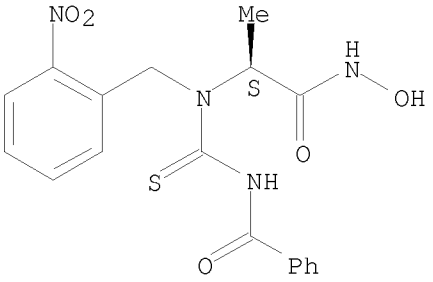


L37 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:381037 HCAPLUS
DOCUMENT NUMBER: 135:133815
TITLE: Protease Inhibitors: Synthesis of a Series of Bacterial Collagenase Inhibitors of the Sulfonyl Amino Acyl Hydroxamate Type
AUTHOR(S): Clare, Brian W.; Scozzafava, Andrea; Supuran, Claudiu T.
CORPORATE SOURCE: Department of Chemistry, The University of Western Australia, 6009, Australia
SOURCE: Journal of Medicinal Chemistry (2001), 44(13), 2253-2258
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:133815
AB A series of sulfonyl amino acyl hydroxamates incorporating alkyl/arylsulfonyl-N-2-nitrobenzyl-L-alanine was prepared Related compds. were obtained by reaction of N-2-nitrobenzyl-L-Ala with aryl isocyanates, arylsulfonyl isocyanates, or benzoyl isothiocyanate, followed by the conversion of the COOH into the CONHOH moiety. The new compds. were assayed as inhibitors of the Clostridium histolyticum collagenase (ChC), a bacterial protease involved in the degradation of extracellular matrix. Many of the obtained hydroxamates proved to be effective bacterial collagenase inhibitors, the main contributor to activity being the substitution pattern at the sulfonamido moiety. The best ChC inhibitors were those containing pentafluorophenylsulfonyl and 3- and 4-protected-aminophenylsulfonyl P1' groups among others, with affinities in the low nanomolar range. This study also proves that the 2-nitrobenzyl- moiety, similarly to the 4-nitrobenyl one previously investigated is an efficient P2' anchoring moiety for obtaining potent bacterial collagenase inhibitors.
IT 351527-61-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis of a series of bacterial collagenase inhibitors of the sulfonyl amino acyl hydroxamate type)
RN 351527-61-2 HCAPLUS
CN Benzamide, N-[[[(1S)-2-(hydroxyamino)-1-methyl-2-oxoethyl][(2-nitrophenyl)methyl]amino]thioxomethyl]- (CA INDEX NAME)

Updated Search

stn

Absolute stereochemistry.



REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:453771 HCAPLUS
DOCUMENT NUMBER: 133:234316
TITLE: Protease inhibitors. Part 12. Synthesis of potent matrix metalloproteinase and bacterial collagenase inhibitors incorporating sulfonylated N-4-nitrobenzyl-β-alanine hydroxamate moieties
AUTHOR(S): Scozzafava, A.; Ilies, M. A.; Manole, G.; Supuran, C. T.
CORPORATE SOURCE: Universita degli Studi, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, I-50121, Italy
SOURCE: European Journal of Pharmaceutical Sciences (2000), 11(1), 69-79
CODEN: EPSCED; ISSN: 0928-0987
PUBLISHER: Elsevier Science Ireland Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB N-4-Nitrobenzyl-β-alanine was reacted with alkyl/arylsulfonyl halides, followed by conversion of the COOH to the CONHOH group. Structurally related compds. were obtained by reaction of N-4-nitrobenzyl-β-alanine with aryl isocyanates, arylsulfonyl isocyanates or benzoyl isothiocyanate, followed by similar conversion of the COOH into the CONHOH moiety. Another subseries of derivs. was prepared from sulfanilyl- or metanilyl-4-nitrobenzyl-β-alanine by reaction with arylsulfonyl isocyanates, followed by the introduction of the hydroxamate moiety. The new compds. were assayed as inhibitors of four matrix metalloproteinases (MMPs), MMP-1, MMP-2, MMP-8 and MMP-9, and of the Clostridium histolyticum collagenase (ChC). Some of the prepared hydroxamate derivs. proved to be very effective collagenase/gelatinase inhibitors, depending on the substitution pattern at the sulfonamido moiety. Substitutions leading to the best inhibitors of MMP-1, a short-pocket enzyme, were those involving pentafluorophenylsulfonyl or 3-trifluoromethyl-phenylsulfonyl at P1' (KI of 3-5 nM). For MMP-2, MMP-8 and MMP-9 (deep-pocket enzymes), the best inhibitors were those containing perfluoroalkylsulfonyl- and substituted-arylsulfonyl moieties, such as pentafluorophenylsulfonyl, 3- and 4-protected-aminophenylsulfonyl-, 3- and 4-carboxy-phenylsulfonyl-, arylsulfonylureido- or arylsulfonylureido-sulfanilyl-/metanilyl moieties at P1'. Bulkier groups

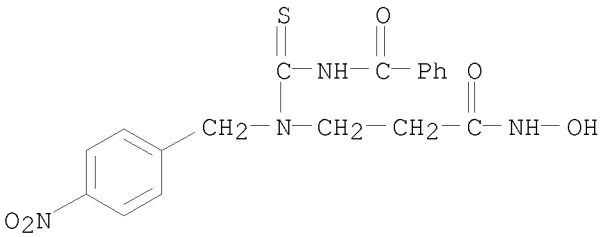
Updated Search

in this position, such as 1- and 2-naphthyl-, substituted-naphthyl or quinoline-8-yl- moieties, among others, led to less effective MMP/ChC inhibitors. The best ChC inhibitors were again those containing pentafluorophenylsulfonyl, 3- and 4-protected-aminophenylsulfonyl P1' groups. This study demonstrates that the 4-nitrobenzyl moiety, investigated here for the first time, is an efficient P2' anchoring moiety, whereas the β-alanyl scaffold can successfully replace the α-amino acyl one, for obtaining potent MMP/ChC inhibitors.

IT 294200-81-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis of potent matrix metalloproteinase and bacterial collagenase inhibitors incorporating sulfonylated nitrobenzylalanine hydroxamate moieties)

RN 294200-81-0 HCAPLUS

CN Benzamide, N-[[[3-(hydroxyamino)-3-oxopropyl][(4-nitrophenyl)methyl]amino]thioxomethyl]- (CA INDEX NAME)



REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:368315 HCAPLUS
DOCUMENT NUMBER: 133:177439
TITLE: Protease inhibitors: synthesis of L-alanine hydroxamate sulfonylated derivatives as inhibitors of Clostridium histolyticum collagenase
AUTHOR(S): Supuran, Claudiu T.; Briganti, Fabrizio; Mincione, Giovanna; Scozzafava, Andrea
CORPORATE SOURCE: Universita degli Studi, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, I-50121, Italy
SOURCE: Journal of Enzyme Inhibition (2000), 15(2), 111-128
CODEN: ENINEG; ISSN: 8755-5093
PUBLISHER: Harwood Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English

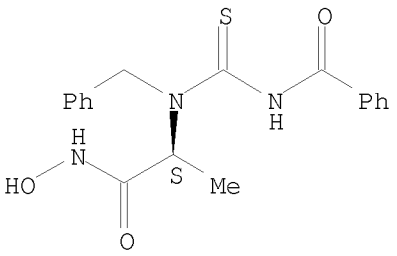
AB L-alanine hydroxamate derivs. were obtained by reaction of alkyl/arylsulfonyl halides with L-alanine, followed by treatment with benzyl chloride, and conversion of the COOH moiety to the CONHOH group with hydroxylamine in the presence of carbodiimides. Other derivs. were obtained by reaction of N-benzyl-alanine with aryl isocyanates, arylsulfonyl isocyanates or benzoyl isothiocyanate, followed by a similar conversion of the COOH to the CONHOH moiety. The obtained compds. were assayed as inhibitors of Clostridium histolyticum collagenase, ChC (EC

3.4.24.3), a zinc enzyme which degrades triple helical collagen. The hydroxamate derivs. were generally 100-500 times more active than the corresponding carboxylates. In the series of synthesized derivs., substitution patterns leading to the most potent ChC inhibitors were those involving perfluoroalkylsulfonyl- and substituted-arylsulfonyl moieties, such as pentafluorophenylsulfonyl, 3- and 4-protected-aminophenylsulfonyl-, 3- and 4-carboxyphenylsulfonyl-, 3-trifluoromethyl-phenylsulfonyl-, or 1- and 2-naphthylsulfonyl among others. Similarly to the matrix metalloproteinase (MMP) hydroxamate inhibitors, ChC inhibitors of the type reported here must incorporate hydrophobic moieties at the P2' and P3' sites, in order to achieve tight binding to the enzyme.

IT 288266-41-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of L-alanine hydroxamate sulfonylated derivs. as inhibitors of Clostridium histolyticum collagenase)

RN 288266-41-1 HCAPLUS
CN Benzamide, N-[[[(1S)-2-(hydroxyamino)-1-methyl-2-oxoethyl](phenylmethyl)amino]thioxomethyl]- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

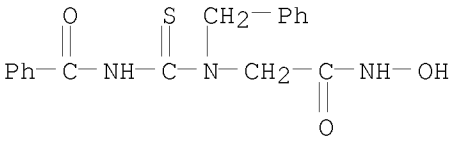
L37 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:261412 HCAPLUS
DOCUMENT NUMBER: 133:53160
TITLE: Protease inhibitors - part 5. Alkyl/arylsulfonyl- and arylsulfonylureido-/arylureido- glycine hydroxamate inhibitors of Clostridium histolyticum collagenase
AUTHOR(S): Scozzafava, Andrea; Supuran, Claudiu T.
CORPORATE SOURCE: Laboratorio di Chimica Inorganica e Bioinorganica, Universita degli Studi, Florence, I-50121, Italy
SOURCE: European Journal of Medicinal Chemistry (2000), 35(3), 299-307
CODEN: EJMCA5; ISSN: 0223-5234
PUBLISHER: Editions Scientifiques et Medicales Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Reaction of alkyl/arylsulfonyl halides with glycine afforded a series of derivs. which were first N-benzylated by treatment with benzyl chloride, and then converted to the corresponding hydroxamic acids with

hydroxylamine in the presence of carbodiimide derivs. Other derivs. were obtained by reaction of N-benzyl-glycine with aryl isocyanates, arylsulfonyl isocyanates or benzoyl isothiocyanate, followed by conversion of their COOH group into the CONHOH moiety, as mentioned above. The 90 new compds. reported here were assayed as inhibitors of the Clostridium histolyticum collagenase (EC 3.4.24.3), a zinc enzyme which degrades triple helical regions of native collagen. The prepared hydroxamate derivs. were generally 100-500 times more active than the corresponding carboxylates. In the series of synthesized hydroxamates, substitution patterns leading to the best inhibitors were those involving perfluoroalkylsulfonyl- and substituted-arylsulfonyl moieties, such as pentafluorophenylsulfonyl, 3- and 4-carboxyphenylsulfonyl-, 3-trifluoromethyl-phenylsulfonyl or 1- and 2-naphthyl among others. Thus, it seems that similarly to the matrix metalloproteinase (MMP) hydroxamate inhibitors, Clostridium histolyticum collagenase inhibitors should incorporate hydrophobic moieties at the P1' and P2' sites, whereas the α-carbon substituent may be a small and compact moiety (such as H, for the Gly derivs. reported here). Such compds. might lead to the design of collagenase inhibitor-based drugs useful as anti-cancer, anti-arthritis or anti-bacterial agents for the treatment of corneal keratitis.

IT 276696-17-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(alkyl/arylsulfonyl- and arylsulfonylureido-/arylureido- glycine hydroxamate inhibitors of Clostridium histolyticum collagenase)

RN 276696-17-4 HCAPLUS
CN Benzamide, N-[[[2-(hydroxyamino)-2-oxoethyl](phenylmethyl)amino]thioxomethyl]- (CA INDEX NAME)



REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:222313 HCAPLUS
DOCUMENT NUMBER: 133:26475
TITLE: Protease Inhibitors: Synthesis of Potent Bacterial Collagenase and Matrix Metalloproteinase Inhibitors Incorporating N-4-Nitrobenzylsulfonylglycine Hydroxamate Moieties
AUTHOR(S): Scozzafava, Andrea; Supuran, Claudiu T.
CORPORATE SOURCE: Laboratorio di Chimica Inorganica e Bioinorganica, Universita degli Studi, Florence, I-50121, Italy
SOURCE: Journal of Medicinal Chemistry (2000), 43(9), 1858-1865
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal

stn

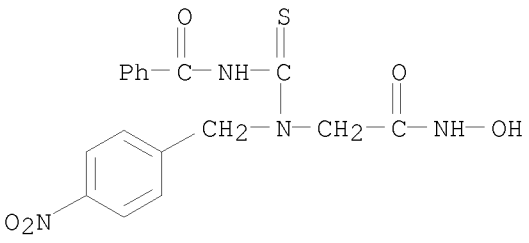
LANGUAGE: English

AB A series of compds. was prepared by reaction of alkyl/arylsulfonyl halides with N-4-nitrobenzylglycine, followed by conversion of the COOH to the CONHOH group, with hydroxylamine in the presence of carbodiimides. Other structurally related compds. were obtained by reaction of N-4-nitrobenzylglycine with aryl isocyanates, arylsulfonyl isocyanates, or benzoyl isothiocyanate, followed by the similar conversion of the COOH into the CONHOH moiety. Another subseries of derivs. was prepared from sulfanilyl- or metanilyl-4-nitrobenzylglycine by reaction with arylsulfonyl isocyanates, followed by conversion of the COOH to the hydroxamate moiety. The new compds. were assayed as inhibitors of four matrix metalloproteinases (MMPs), MMP-1, MMP-2, MMP-8, and MMP-9, and of the Clostridium histolyticum collagenase (ChC). Some of the prepared hydroxamate derivs. proved to be very effective collagenase/gelatinase inhibitors, depending on the substitution pattern at the sulfonamido moiety. Substitutions leading to best inhibitors of MMP-1, a short pocket enzyme, were those involving pentafluorophenylsulfonyl or 3-trifluoromethylphenylsulfonyl moieties at P1' (KI's of 3-5 nM). For MMP-2, MMP-8, and MMP-9 (deep-pocket enzymes), best inhibitors were especially those containing long perfluoroalkylsulfonyl and substituted-arylsulfonyl moieties, such as pentafluorophenylsulfonyl, 3- and 4-protected-aminophenylsulfonyl, 3- and 4-carboxyphenylsulfonyl, arylsulfonylureido, or arylsulfonylureidosulfanilyl/metanilyl moieties, at P1'. Bulkier groups in this position, such as 1- and 2-naphthyl, substituted-naphthyl, or quinolin-8-yl moieties among others, led to less effective MMP/ChC inhibitors. Best ChC inhibitors were again those containing pentafluorophenylsulfonyl or 3- and 4-protected-aminophenylsulfonyl P1' anchoring groups, suggesting that this protease is also a short-pocket wider-neck one (more similar to MMP-1). This study also proves that the 4-nitrobenzyl moiety is an efficient P2' anchoring moiety and that sulfonylureido, ureido, or carboxythioureido substitutions at P1' are also tolerated for obtaining potent sulfonylated amino acid hydroxamate-like MMP/ChC inhibitors.

IT 273732-17-5
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(synthesis of potent bacterial collagenase and matrix metalloproteinase inhibitors incorporating nitrobenzylsulfonylglycine hydroxamate moieties)

RN 273732-17-5 HCAPLUS

CN Benzamide, N-[[[2-(hydroxyamino)-2-oxoethyl][(4-nitrophenyl)methyl]amino]thioxomethyl]- (CA INDEX NAME)

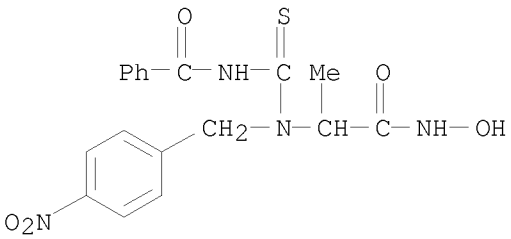


REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Updated Search

stn

L37 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:208763 HCAPLUS
DOCUMENT NUMBER: 132:305057
TITLE: Protease inhibitors: synthesis of Clostridium histolyticum collagenase inhibitors incorporating sulfonyl-L-alanine hydroxamate moieties
AUTHOR(S): Scozzafava, Andrea; Supuran, Claudiu T.
CORPORATE SOURCE: Universita degli Studi, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, 50121, Italy
SOURCE: Bioorganic & Medicinal Chemistry Letters (2000), 10(5), 499-502
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A series of hydroxamates was obtained by the reaction of N-(4-nitrobenzyl)-L-alanine with alkyl/arylsulfonyl halides, followed by conversion of the CO2H group into CONHOH (no data). Structurally related compds. were prepared similarly by using arylsulfonyl isocyanates, aryl isocyanates or arylsulfenyl halides instead of the sulfonyl halides (no data). Many of the new compds. showed nanomolar affinity for the bacterial collagenase isolated from the pathogen Clostridium histolyticum.
IT 265668-57-3
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(Clostridium collagenase inhibitors incorporating sulfonylalanine hydroxamate)
RN 265668-57-3 HCAPLUS
CN Benzamide, N-[[[2-(hydroxyamino)-1-methyl-2-oxoethyl][(4-nitrophenyl)methyl]amino]thioxomethyl]- (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:157028 HCAPLUS
DOCUMENT NUMBER: 132:344757
TITLE: Protease inhibitors. Part 8. Synthesis of potent Clostridium histolyticum collagenase inhibitors incorporating sulfonylated L-alanine hydroxamate moieties
AUTHOR(S): Scozzafava, A.; Supuran, C. T.
CORPORATE SOURCE: Laboratorio di Chimica Inorganica e Bioinorganica, Universita degli Studi, Florence, I-50121, Italy

Updated Search

stn

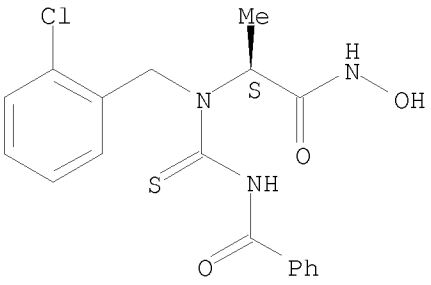
SOURCE: Bioorganic & Medicinal Chemistry (2000), 8(3), 637-645
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A series of hydroxamates was prepared by reaction of alkyl/arylsulfonyl halides with N-2-chlorobenzyl-L-alanine, followed by conversion of the CO2H moiety to the CONHOH group, with NH2OH in the presence of carbodiimides. Other structurally related compds. were obtained by reaction of N-2-chlorobenzyl-L-alanine with aryl isocyanates, arylsulfonyl isocyanates, or benzoyl isothiocyanate, followed by the similar conversion of the CO2H into the CONHOH moiety. The new compds. were assayed as inhibitors of the Clostridium histolyticum collagenase, ChC (EC 3.4.24.3), a bacterial Zn metallo-peptidase which degrades triple helical collagen as well as a large number of synthetic peptides. The prepared hydroxamates proved to be 100-500+ more active collagenase inhibitors than the corresponding carboxylates. Substitution patterns leading to best ChC inhibitors (both for carboxylates as well as for the hydroxamates) were those involving perfluoroalkylsulfonyl- and substituted arylsulfonyl moieties, such as C6F5SO2, protected 3- and 4-aminophenylsulfonyl-, 3-/4-HO2CC6H4SO2, 3-F3CC6H4SO2, as well as 1- and 2-naphthyl-, quinolin-8-yl- or substituted-arylsulfonylamido-carboxyl moieties among others. Similarly to the matrix metalloproteinase (MMP) hydroxamate inhibitors, ChC inhibitors of the type reported here must incorporate hydrophobic moieties at the P2' and P3' sites, to achieve tight binding to the enzyme. This study also proves that the 2-chlorobenzyl moiety, is an efficient P2' anchoring moiety for obtaining potent ChC inhibitors.

IT 269747-23-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of Clostridium collagenase inhibitors incorporating sulfonylated alanine hydroxamate)

RN 269747-23-1 HCAPLUS
CN Benzamide, N-[[[(2-chlorophenyl)methyl][(1S)-2-(hydroxyamino)-1-methyl-2-oxoethyl]amino]thioxomethyl]- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:142412 HCAPLUS

Updated Search

stn

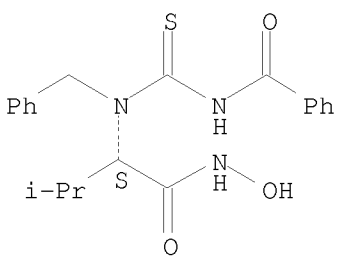
DOCUMENT NUMBER: 132:342787
TITLE: Protease inhibitors. Part 7 Inhibition of Clostridium histolyticum collagenase with sulfonylated derivatives of l-valine hydroxamate
AUTHOR(S): Supuran, C. T.; Scozzafava, A.
CORPORATE SOURCE: Laboratorio di Chimica Inorganica e Bioinorganica, Universita degli Studi, Florence, I-50121, Italy
SOURCE: European Journal of Pharmaceutical Sciences (2000), 10(1), 67-76
CODEN: EPSCED; ISSN: 0928-0987
PUBLISHER: Elsevier Science Ireland Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Sulfonylated l-valine hydroxamate derivs. were obtained by reaction of alkyl/arylsulfonyl halides with the title amino acid, followed by treatment with benzyl chloride, and conversion of the COOH moiety to the CONHOH group. Other derivs. were obtained by reaction of N-benzyl-l-valine with arylisocyanates, arylsulfonylisocyanates or benzoylisothiocyanate, followed by the similar conversion of the COOH into the CONHOH moiety, with hydroxylamine in the presence of carbodiimides. The obtained compds. were assayed as inhibitors of the Clostridium histolyticum collagenase, ChC (EC 3.4.24.3), a zinc enzyme which degrades triple helical collagen. The hydroxamate derivs. were generally 100-500 times more active than the corresponding carboxylates. In the series of synthesized derivs., substitution patterns leading to best ChC inhibitors were those involving perfluoroalkylsulfonyl- and substituted-arylsulfonyl moieties, such as pentafluorophenylsulfonyl; 3- and 4-protected-aminophenylsulfonyl-; 3- and 4-carboxyphenylsulfonyl-; 3-trifluoromethylphenylsulfonyl; or 1- and 2-naphthyl among others. Similarly to the matrix metalloproteinase hydroxamate inhibitors, ChC inhibitors of the type reported here must incorporate hydrophobic moieties at the P2' and P3' subsites, in order to achieve tight binding to the enzyme. Such compds. might lead to drugs useful in the treatment of corneal bacterial keratitis.

IT 270072-93-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(preparation of sulfonylated valine hydroxamates as inhibitors of Clostridium histolyticum collagenase)

RN 270072-93-0 HCAPLUS
CN Benzamide, N-[[[(1S)-1-[(hydroxyamino)carbonyl]-2-methylpropyl](phenylmethyl)amino]thioxomethyl]- (CA INDEX NAME)

Absolute stereochemistry.



Updated Search

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L2           0 S L1
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L4           3 S L3
L5           1 S L4 AND LIM, Z?/AU
L6           2 S L4 NOT L5
L7           0 S L6 AND WANG, H?/AU
L8           0 S L6 AND ZHOU, Y?/AU

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L9           0 S L3

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     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16            STRUCTURE UPLOADED
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L28         18 S L27 NOT L18
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Updated Search

stn

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     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
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L33          23 S L31 FULL
L34          23 S L33 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:47:19 ON 27 OCT 2008
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L36          11 S L35 NOT L14
L37           9 S L36 NOT L4
L38           0 S L37 AND LIM, Z?/AU
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=> file caold
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
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FULL ESTIMATED COST                                  75.95    1017.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                  -7.20     -11.20

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    . November 22, 2008 - removed from database clusters
    . December 31, 2008 - removed from STN

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  in CA/CAplus.  To learn more about the options available for
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Updated Search

stn

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  contact your STN Service Center.

=> s l34
L41   0 L34

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
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FULL ESTIMATED COST   0.46   1017.47

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L42   STRUCTURE UPLOADED

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SAMPLE SCREEN SEARCH COMPLETED -   52 TO ITERATE

100.0% PROCESSED   52 ITERATIONS   1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 608 TO   1472

Updated Search

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stn


PROJECTED ANSWERS:               1 TO       80

L43           1 SEA SSS SAM L42

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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 00:55:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     1051 TO ITERATE

100.0% PROCESSED     1051 ITERATIONS                                74 ANSWERS
SEARCH TIME: 00.00.01

L44          74 SEA SSS FUL L42

=>  dhis
DHIS IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d his

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L3           14 S L1 FULL

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L5            1 S L4 AND LIM, Z?/AU
L6            2 S L4 NOT L5
L7            0 S L6 AND WANG, H?/AU
L8            0 S L6 AND ZHOU, Y?/AU

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L12          66 S L10 FULL
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     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15           0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16              STRUCTURE UPLOADED
L17           3 S L16
L18          69 S L16 FULL



Updated Search
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stn

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L19          69 S L18 NOT L3
L20           3 S L19 NOT L13

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     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22           0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
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L25          18 S L23 FULL
L26          18 S L25 NOT L13
L27          18 S L25 NOT L3
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=> s l45 not l19
L46         74 L45 NOT L19

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1              STRUCTURE UPLOADED
L2            0 S L1
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Updated Search

stn

```
L3           14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4            3 S L3
L5            1 S L4 AND LIM, Z?/AU
L6            2 S L4 NOT L5
L7            0 S L6 AND WANG, H?/AU
L8            0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
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L10             STRUCTURE UPLOADED
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L12          66 S L10 FULL
L13          66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14           1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15           0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16             STRUCTURE UPLOADED
L17           3 S L16
L18          69 S L16 FULL
L19          69 S L18 NOT L3
L20           3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21           1 S L20

     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22           0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23             STRUCTURE UPLOADED
L24           0 S L23
L25          18 S L23 FULL
L26          18 S L25 NOT L13
L27          18 S L25 NOT L3
L28          18 S L27 NOT L18

     FILE 'HCAPLUS' ENTERED AT 00:45:00 ON 27 OCT 2008
L29           1 S L28
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     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
L31             STRUCTURE UPLOADED
L32           1 S L31
L33          23 S L31 FULL
L34          23 S L33 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:47:19 ON 27 OCT 2008
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Updated Search

stn

```
L35          12 S L34
L36          11 S L35 NOT L14
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L39           0 S L37 AND WANG, H?/AU
L40           0 S L37 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:53:34 ON 27 OCT 2008
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     FILE 'REGISTRY' ENTERED AT 00:53:39 ON 27 OCT 2008
L42             STRUCTURE UPLOADED
L43           1 S L42
L44          74 S L42 FULL
L45          74 S L44 NOT L34
L46          74 S L45 NOT L19

=> s l46 not l13
L47         74 L46 NOT L13

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     179.74    1197.21

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00     -11.20

FILE 'HCAPLUS' ENTERED AT 00:55:54 ON 27 OCT 2008
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 27 Oct 2008  VOL 149 ISS 18
FILE LAST UPDATED: 26 Oct 2008  (20081026/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.
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Updated Search

stn

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=> s l47
L48         13 L47

=> d hsi
'HSI' IS NOT A VALID FORMAT FOR FILE 'HCAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, CLASS

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs
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Updated Search

stn

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d his

(FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1 STRUCTURE UPLOADED
L2 0 S L1
L3 14 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4 3 S L3
L5 1 S L4 AND LIM, Z?/AU
L6 2 S L4 NOT L5
L7 0 S L6 AND WANG, H?/AU
L8 0 S L6 AND ZHOU, Y?/AU

FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9 0 S L3

FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10 STRUCTURE UPLOADED
L11 3 S L10
L12 66 S L10 FULL
L13 66 S L12 NOT L3

FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14 1 S L13

FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15 0 S L13

FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16 STRUCTURE UPLOADED
L17 3 S L16
L18 69 S L16 FULL
L19 69 S L18 NOT L3
L20 3 S L19 NOT L13

FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21 1 S L20

FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22 0 S L20

Updated Search

stn

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     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23             STRUCTURE UPLOADED
L24           0 S L23
L25          18 S L23 FULL
L26          18 S L25 NOT L13
L27          18 S L25 NOT L3
L28          18 S L27 NOT L18

     FILE 'HCAPLUS' ENTERED AT 00:45:00 ON 27 OCT 2008
L29           1 S L28
L30           0 S L29  NOT L21

     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
L31             STRUCTURE UPLOADED
L32           1 S L31
L33          23 S L31 FULL
L34          23 S L33 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:47:19 ON 27 OCT 2008
L35          12 S L34
L36          11 S L35 NOT L14
L37           9 S L36 NOT L4
L38           0 S L37 AND LIM, Z?/AU
L39           0 S L37 AND WANG, H?/AU
L40           0 S L37 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:53:34 ON 27 OCT 2008
L41           0 S L34

     FILE 'REGISTRY' ENTERED AT 00:53:39 ON 27 OCT 2008
L42             STRUCTURE UPLOADED
L43           1 S L42
L44          74 S L42 FULL
L45          74 S L44 NOT L34
L46          74 S L45 NOT L19
L47          74 S L46 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:55:54 ON 27 OCT 2008
L48          13 S L47

=> s l48 not l35
L49           3 L48 NOT L35

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

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L1              STRUCTURE UPLOADED
L2            0 S L1
L3           14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4            3 S L3
L5            1 S L4 AND LIM, Z?/AU
L6            2 S L4 NOT L5
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Updated Search

stn

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L7            0 S L6 AND WANG, H?/AU
L8            0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9            0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10             STRUCTURE UPLOADED
L11           3 S L10
L12          66 S L10 FULL
L13          66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14           1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15           0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16             STRUCTURE UPLOADED
L17           3 S L16
L18          69 S L16 FULL
L19          69 S L18 NOT L3
L20           3 S L19 NOT L13

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L22           0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23             STRUCTURE UPLOADED
L24           0 S L23
L25          18 S L23 FULL
L26          18 S L25 NOT L13
L27          18 S L25 NOT L3
L28          18 S L27 NOT L18

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L30           0 S L29  NOT L21

     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
L31             STRUCTURE UPLOADED
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L33          23 S L31 FULL
L34          23 S L33 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:47:19 ON 27 OCT 2008
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L36          11 S L35 NOT L14
L37           9 S L36 NOT L4
L38           0 S L37 AND LIM, Z?/AU
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Updated Search

stn

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     FILE 'CAOLD' ENTERED AT 00:53:34 ON 27 OCT 2008
L41           0 S L34

     FILE 'REGISTRY' ENTERED AT 00:53:39 ON 27 OCT 2008
L42             STRUCTURE UPLOADED
L43           1 S L42
L44          74 S L42 FULL
L45          74 S L44 NOT L34
L46          74 S L45 NOT L19
L47          74 S L46 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:55:54 ON 27 OCT 2008
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L49           3 S L48 NOT L35

=> s l49 and lim, z?/au
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=> s l49 and wang, h?/au
         51308 WANG, H?/AU
L51          0 L49 AND WANG, H?/AU

=> d l49, ibib abs hitstr, 1-3

L49  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2003:442742  HCAPLUS
DOCUMENT NUMBER:          139:245665
TITLE:                    Novel Inhibitors of Procollagen C-Terminal Proteinase.
                          Part 1: Diamino Acid Hydroxamates
AUTHOR(S):                Delaet, N. G. J.; Robinson, L. A.; Wilson, D. M.;
                          Sullivan, R. W.; Bradley, E. K.; Dankwardt, S. M.;
                          Martin, R. L.; Van Wart, H. E.; Walker, K. A. M.
CORPORATE SOURCE:         CombiChem Inc., San Diego, CA, 92121, USA
SOURCE:                   Bioorganic & Medicinal Chemistry Letters (2003),
                          13(13), 2101-2104
                          CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER:                Elsevier Science B.V.
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 139:245665
AB   The parallel synthesis of novel inhibitors of procollagen C-terminal
     proteinase is described.  The synthetic strategy allowed for the facile
     synthesis of a large number of side-chain diversified diamino acid
     hydroxamates, of which the d-diaminopropionic acid derivs. were shown to
     be single digit nanomolar PCP inhibitors.
IT   279255-40-2P
     RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic
     preparation); BIOL (Biological study); PREP (Preparation)
        (solid-phase synthesis and structure-activity relations of diamino acid
        hydroxamates as inhibitors of procollagen C-terminal proteinase)
RN   279255-40-2  HCAPLUS
CN   Propanamide, 2-[(1,3-benzodioxol-5-ylmethyl)[(4-
     methoxyphenyl)sulfonyl]amino]-3-[[[[(4-
     chlorophenyl)sulfonyl]amino]carbonyl]amino]-N-hydroxy-, (2R)-  (CA INDEX
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Updated Search

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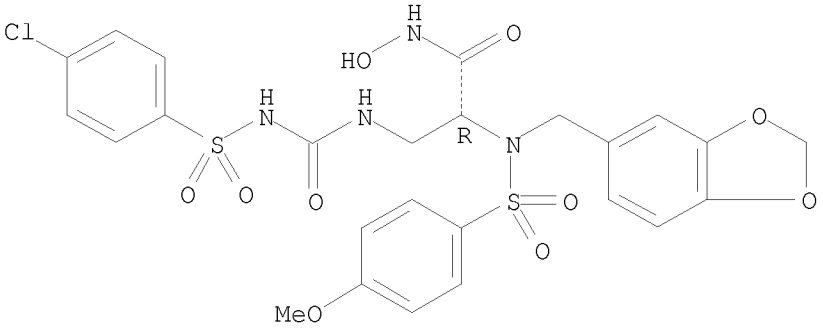
NAME)

Absolute stereochemistry.



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:311217 HCAPLUS
DOCUMENT NUMBER: 139:245734
TITLE: Protease inhibitors: synthesis of bacterial collagenase and matrix metalloproteinase inhibitors incorporating arylsulfonylureido and 5-dibenzo-suberenyl/suberyl moieties
AUTHOR(S): Ilies, Monica; Banciu, Mircea D.; Scozzafava, Andrea; Ilies, Marc A.; Caproiu, Miron T.; Supuran, Claudiu T.
CORPORATE SOURCE: Polo Scientifico, Laboratorio di Chimica Inorganica e Bioinorganica, Universita degli Studi, Florence, 50019, Italy
SOURCE: Bioorganic & Medicinal Chemistry (2003), 11(10), 2227-2239
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:245734
AB Novel matrix metalloproteinase (MMP)/bacterial collagenase inhibitors are reported, considering the sulfonylated amino acid hydroxamates as lead mols. A series of compds. was prepared by reaction of arylsulfonyl isocyanates with N-(5H-dibenzo[a,d]cyclohepten-5-yl)- and N-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl) Me glycocolate, resp., followed by the conversion of the COOMe to the carboxylate/hydroxamate moieties. The corresponding derivs. with methylene and ethylene spacers between the polycyclic moiety and the amino acid functionality were also obtained by related synthetic strategies. These new compds. were assayed as inhibitors of MMP-1, MMP-2, MMP-8 and MMP-9, and of the collagenase isolated from Clostridium histolyticum (ChC). Some of the new derivs. reported here proved to be powerful inhibitors of the four MMPs mentioned above and of ChC, with activities in the low nanomolar range for some of the target enzymes, depending on the substitution pattern at the sulfonylureido moiety and on the length of the spacer through which the dibenzosuberenyl/suberyl group is connected with the rest of the mol.

Updated Search

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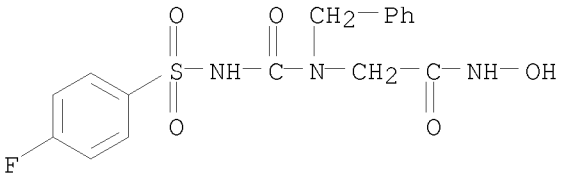
Several of these inhibitors also showed selectivity for the deep pocket enzymes (MMP-2, MMP-8 and MMP-9) over the shallow pocket ones MMP-1 and ChC.

IT 276695-94-4 276695-95-5 276695-96-6
276695-97-7
RL: PAC (Pharmacological activity); BIOL (Biological study)
(preparation of arylsulfonylureido- and dibenzosuberenyl/suberyl-containing compds. as matrix metalloproteinase/bacterial collagenase inhibitors)

RN 276695-94-4 HCAPLUS
CN Acetamide, 2-[[[[(4-fluorophenyl)sulfonyl]amino]carbonyl](phenylmethyl)amino]-N-hydroxy- (CA INDEX NAME)



RN 276695-95-5 HCAPLUS
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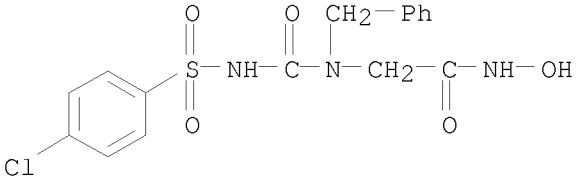

RN 276695-96-6 HCAPLUS
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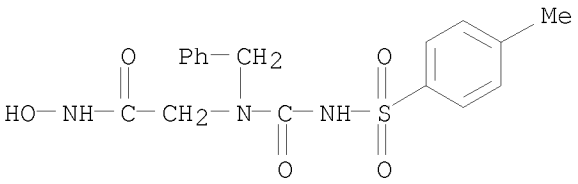
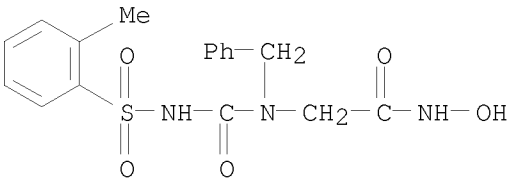


RN 276695-97-7 HCAPLUS
CN Acetamide, N-hydroxy-2-[[[[(2-methylphenyl)sulfonyl]amino]carbonyl](phenylmethyl)amino]- (CA INDEX NAME)

Updated Search

stn



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597570-34-8P 597570-37-1P 597570-39-3P
597570-41-7P 597570-43-9P 597570-45-1P
597570-47-3P 597570-49-5P 597570-51-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of arylsulfonylureido- and dibenzosuberenyl/suberyl-containing compds. as matrix metalloproteinase/bacterial collagenase inhibitors)

RN 597570-12-2 HCAPLUS
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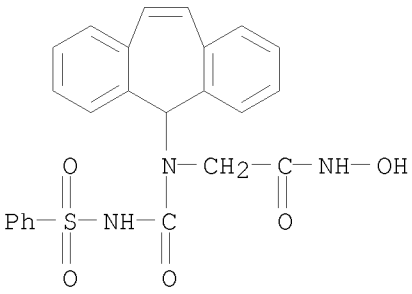
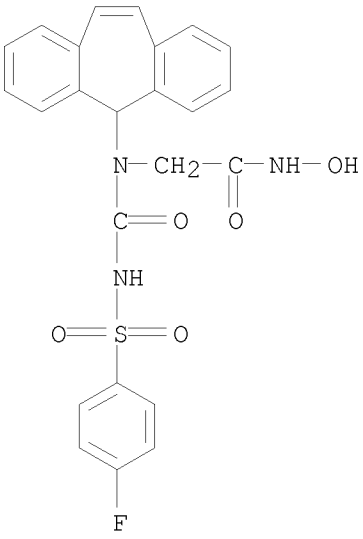


RN 597570-13-3 HCAPLUS
CN Acetamide, 2-[5H-dibenzo[a,d]cyclohepten-5-yl[[[(4-fluorophenyl)sulfonyl]amino]carbonyl]amino]-N-hydroxy- (CA INDEX NAME)

Updated Search

stn



RN 597570-14-4 HCAPLUS
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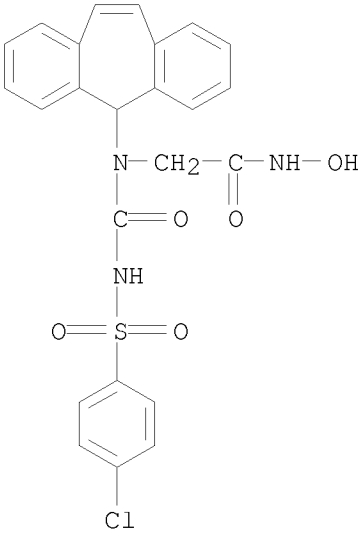

RN 597570-15-5 HCAPLUS
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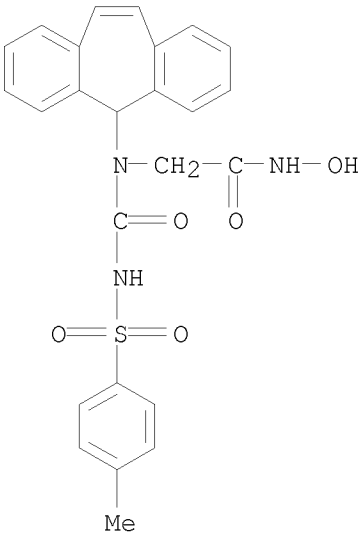
Updated Search

stn



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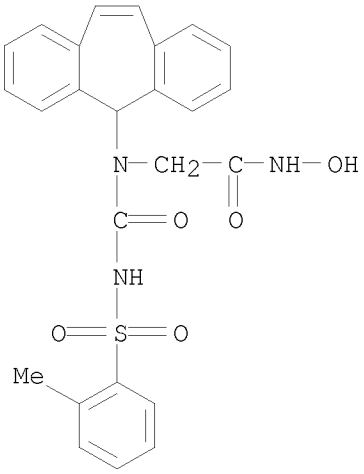

RN 597570-17-7 HCAPLUS
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Updated Search

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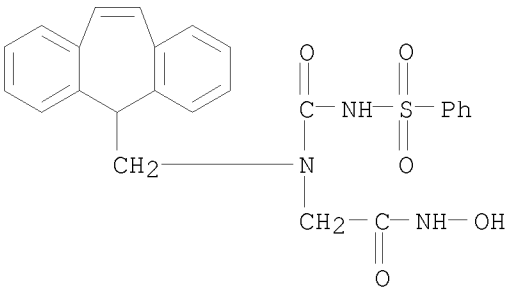

RN 597570-18-8 HCAPLUS
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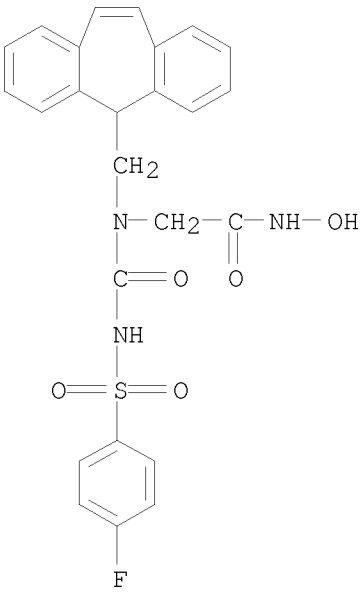

RN 597570-19-9 HCAPLUS
CN Acetamide, 2-[[[[(4-chlorophenyl)sulfonyl]amino]carbonyl](5H-dibenzo[a,d]cyclohepten-5-ylmethyl)amino]-N-hydroxy- (CA INDEX NAME)

Updated Search

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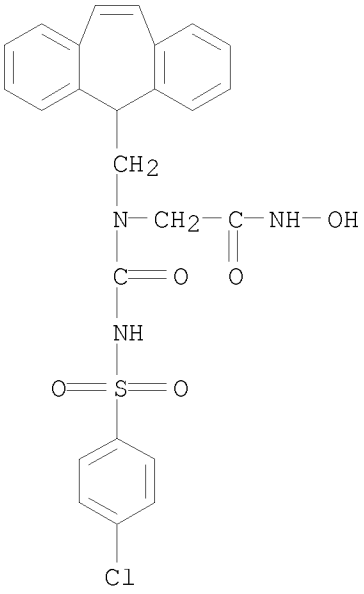

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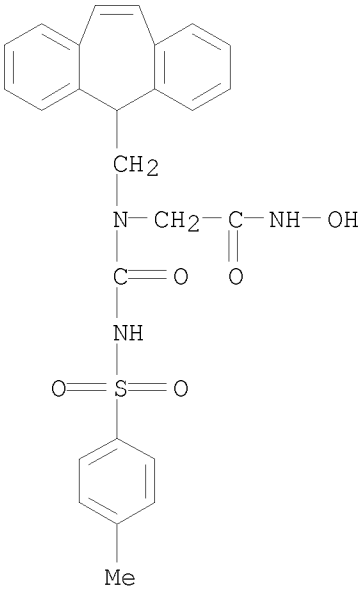

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Updated Search

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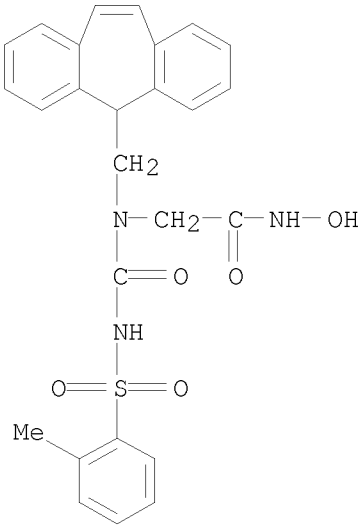

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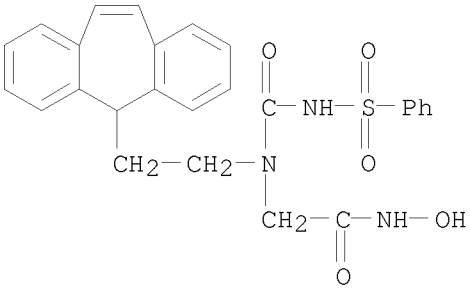

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Updated Search

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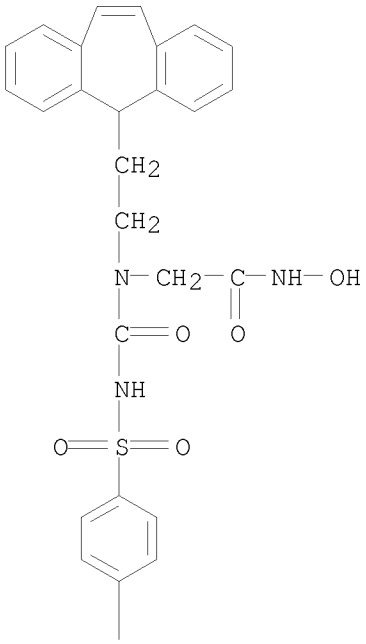

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Updated Search

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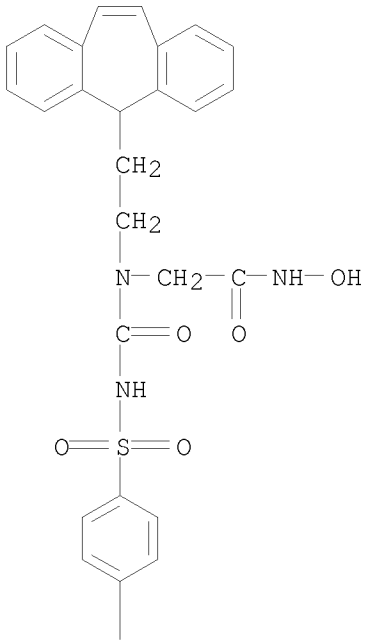

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Updated Search

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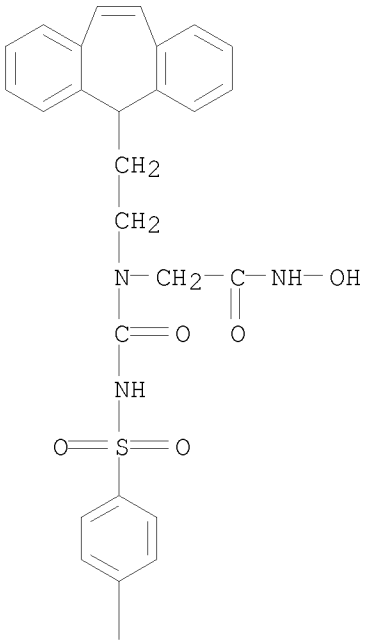

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Updated Search

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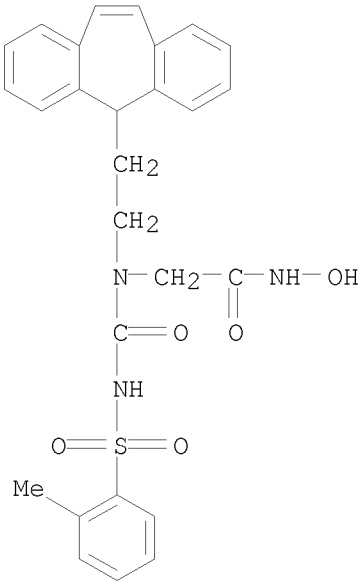

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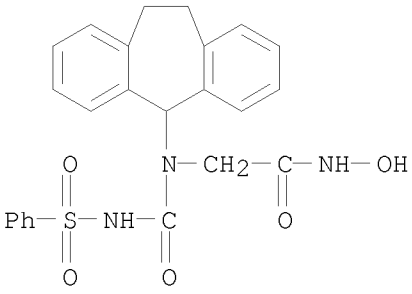

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Updated Search

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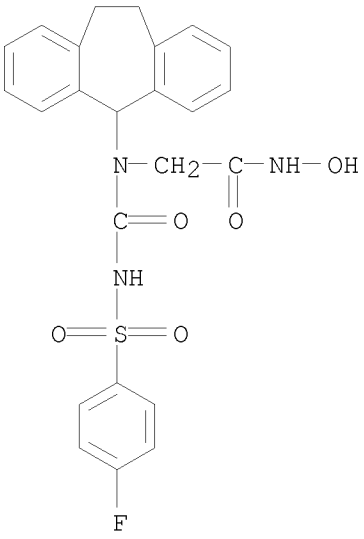

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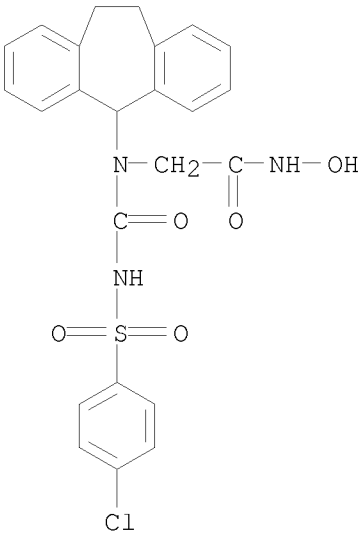

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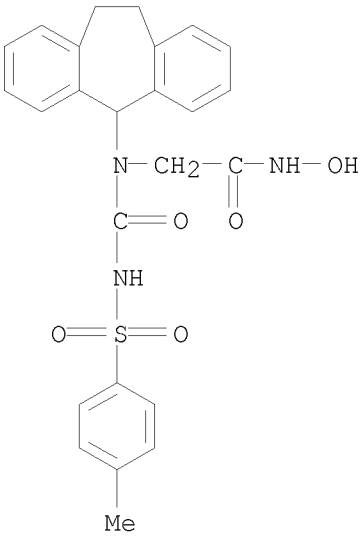

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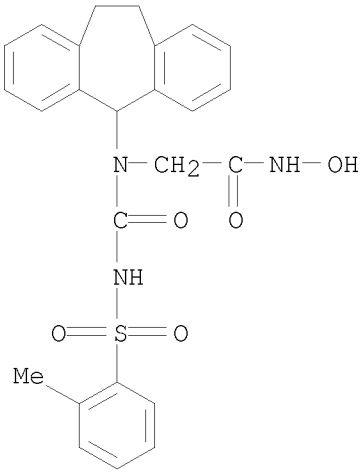

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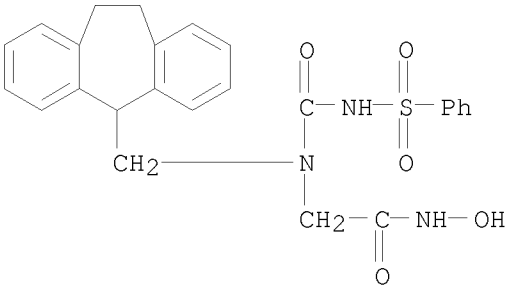

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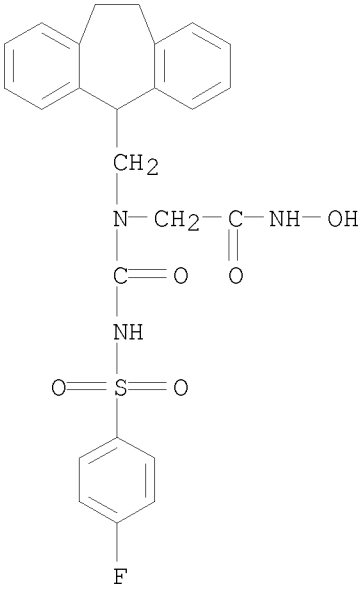

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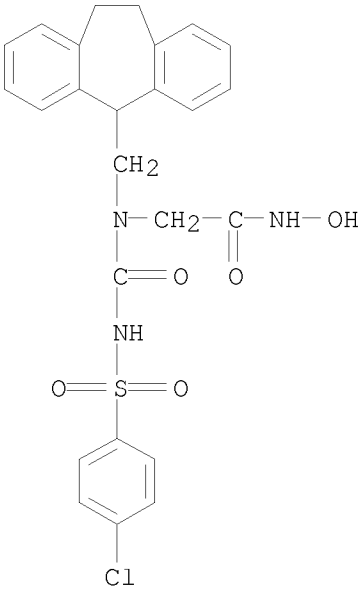

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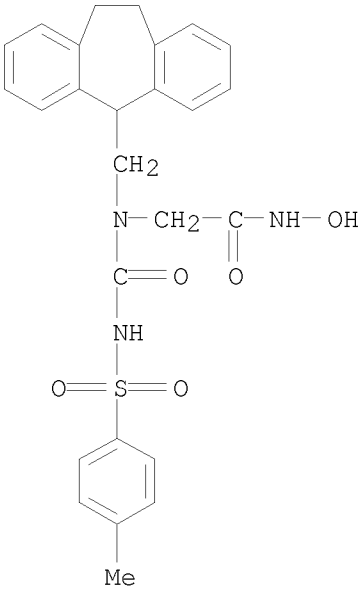

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Updated Search

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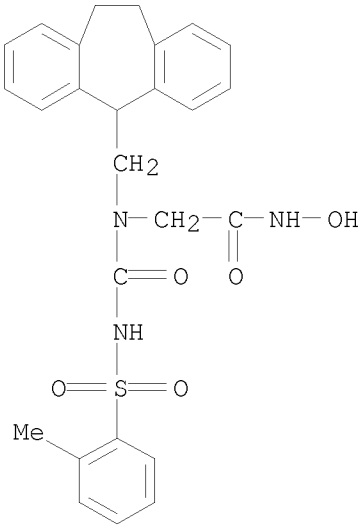

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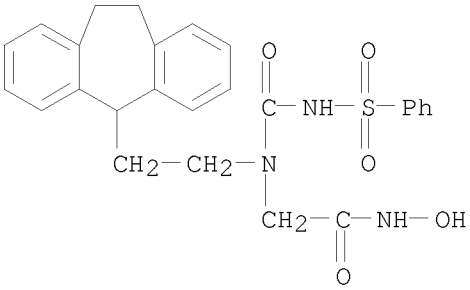

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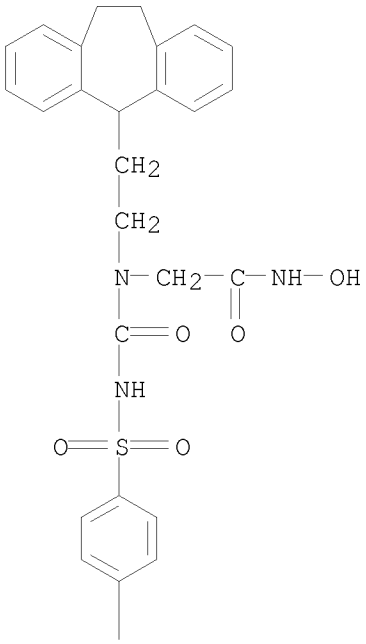
Updated Search

stn

PAGE 1-A



PAGE 2-A

RN 597570-47-3 HCAPLUS
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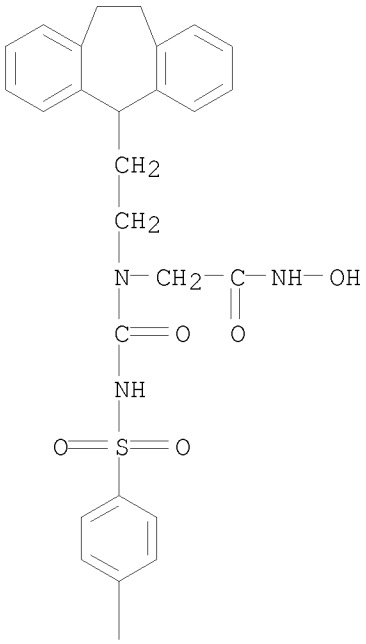
Updated Search

stn

PAGE 1-A



PAGE 2-A

RN 597570-49-5 HCAPLUS
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Updated Search

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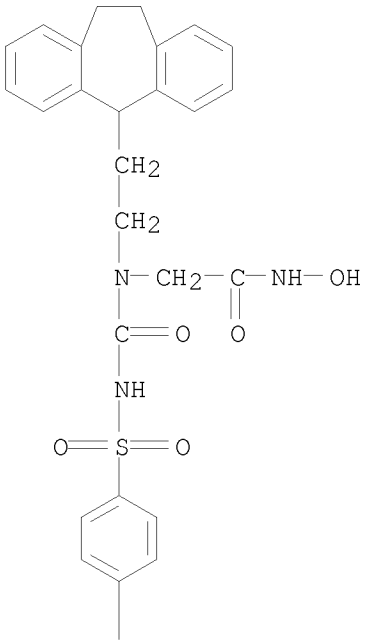
PAGE 1-A



PAGE 2-A

RN 597570-51-9 HCAPLUS
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Updated Search

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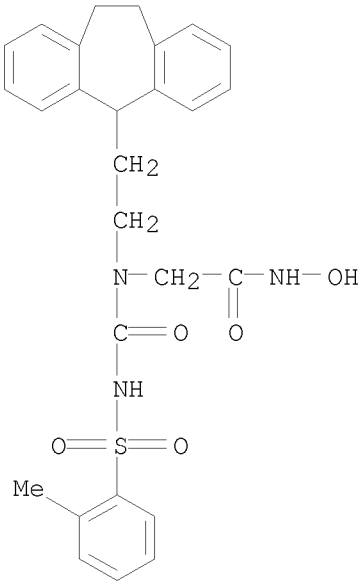

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:441768 HCAPLUS
DOCUMENT NUMBER: 133:74324
TITLE: Preparation of amino acid sulfonamide hydroxamates as inhibitors of procollagen C-proteinase.
INVENTOR(S): Billedeau, Roland Joseph; Broka, Chris Allen; Campbell, Jeffrey Allen; Chen, Jian Jeffrey; Dankwardt, Sharon Marie; Delaet, Nancy; Robinson, Leslie Ann; Walker, Keith Adrian Murray
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: PCT Int. Appl., 133 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000037436	A1	20000629	WO 1999-EP9920	19991214
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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EP 1149072	A1	20011031	EP 1999-963530		19991214
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HR 2001000443	A1	20020630	HR 2001-443		20010614
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			US 1999-164138P	P	19991108
			WO 1999-EP9920	W	19991214
			US 1999-469660	A3	19991222

OTHER SOURCE(S): MARPAT 133:74324

AB HOHNCOCHR1NRSO2Ar2 [R1 = alkyl, haloalkyl, heteroalkyl, cycloalkyl, aryl, aralkyl, aralkenyl, heteroaryl, heteroaralkyl, aminl, aryl, aralkyl, etc.; R = CHR2Ar1, CHR2CH:CHAr1; Ar2 = specified (substituted) Ph, naphthyl; R2 = H, alkyl; with provisos], were prepared Thus, N-hydroxy-2(R)-[(3,4-methylenedioxybenzyl)(4-methoxy-2,3,6-trimethylbenzenesulfonyl)amino]-3-methylbutyramide was prepared by solution phase synthesis from BOC-D-Val-OH. Title compds. inhibited procollagen C-proteinase with IC50 0.01-2 μM.

IT 279255-40-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amino acid sulfonamide hydroxamates as inhibitors of procollagen C-proteinase)

RN 279255-40-2 HCAPLUS

CN Propanamide, 2-[(1,3-benzodioxol-5-ylmethyl)[(4-methoxyphenyl)sulfonyl]amino]-3-[[[[(4-chlorophenyl)sulfonyl]amino]carbonyl]amino]-N-hydroxy-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.

Updated Search

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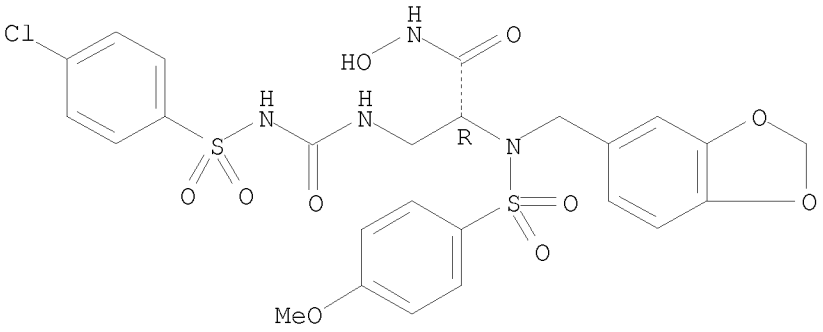

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.73	1218.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.40	-13.60

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database clusters.

- November 22, 2008 - removed from database clusters
- December 31, 2008 - removed from STN

Content previously available only in CAOLD is now available in CA/CAplus. To learn more about the options available for

Updated Search

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stn


  transferring saved search queries and answer sets to CA/CAplus,
  contact your STN Service Center.

=> d his

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L7           0 S L6 AND WANG, H?/AU
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Updated Search
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L50           0 S L49 AND LIM, Z?/AU
L51           0 S L49 AND WANG, H?/AU

     FILE 'CAOLD' ENTERED AT 00:57:13 ON 27 OCT 2008

=> s l47
L52           0 L47

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   0.46    1219.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00     -13.60

FILE 'REGISTRY' ENTERED AT 00:57:20 ON 27 OCT 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.
```

Updated Search

```
stn


STRUCTURE FILE UPDATES:   24 OCT 2008  HIGHEST RN 1065816-63-8
DICTIONARY FILE UPDATES:  24 OCT 2008  HIGHEST RN 1065816-63-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\e-Red
Folder\10524345\asfasry.str

L53     STRUCTURE UPLOADED

=> s l53
SAMPLE SEARCH INITIATED 00:58:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       55 TO ITERATE

100.0% PROCESSED       55 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          656 TO     1544
PROJECTED ANSWERS:               0 TO        0

L54           0 SEA SSS SAM L53

=> s l53 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 00:58:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     1172 TO ITERATE

100.0% PROCESSED     1172 ITERATIONS                                7 ANSWERS
SEARCH TIME: 00.00.01

L55           7 SEA SSS FUL L53

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1              STRUCTURE UPLOADED
L2            0 S L1
L3           14 S L1 FULL



Updated Search
```

stn

```
     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4             3 S L3
L5             1 S L4 AND LIM, Z?/AU
L6             2 S L4 NOT L5
L7             0 S L6 AND WANG, H?/AU
L8             0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9             0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10              STRUCTURE UPLOADED
L11            3 S L10
L12           66 S L10 FULL
L13           66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14            1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15            0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16              STRUCTURE UPLOADED
L17            3 S L16
L18           69 S L16 FULL
L19           69 S L18 NOT L3
L20            3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21            1 S L20

     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22            0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23              STRUCTURE UPLOADED
L24            0 S L23
L25           18 S L23 FULL
L26           18 S L25 NOT L13
L27           18 S L25 NOT L3
L28           18 S L27 NOT L18

     FILE 'HCAPLUS' ENTERED AT 00:45:00 ON 27 OCT 2008
L29            1 S L28
L30            0 S L29  NOT L21

     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
L31              STRUCTURE UPLOADED
L32            1 S L31
L33           23 S L31 FULL
L34           23 S L33 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:47:19 ON 27 OCT 2008
L35           12 S L34
```

Updated Search

stn

```
L36          11 S L35 NOT L14
L37           9 S L36 NOT L4
L38           0 S L37 AND LIM, Z?/AU
L39           0 S L37 AND WANG, H?/AU
L40           0 S L37 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:53:34 ON 27 OCT 2008
L41           0 S L34

     FILE 'REGISTRY' ENTERED AT 00:53:39 ON 27 OCT 2008
L42             STRUCTURE UPLOADED
L43           1 S L42
L44          74 S L42 FULL
L45          74 S L44 NOT L34
L46          74 S L45 NOT L19
L47          74 S L46 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:55:54 ON 27 OCT 2008
L48          13 S L47
L49           3 S L48 NOT L35
L50           0 S L49 AND LIM, Z?/AU
L51           0 S L49 AND WANG, H?/AU

     FILE 'CAOLD' ENTERED AT 00:57:13 ON 27 OCT 2008
L52           0 S L47

     FILE 'REGISTRY' ENTERED AT 00:57:20 ON 27 OCT 2008
L53             STRUCTURE UPLOADED
L54           0 S L53
L55           7 S L53 FULL

=> s l55 not l47
L56           7 L55 NOT L47

=> file hcaplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 179.28    1398.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00     -13.60

FILE 'HCAPLUS' ENTERED AT 00:59:01 ON 27 OCT 2008
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Updated Search

stn

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FILE COVERS 1907 - 27 Oct 2008 VOL 149 ISS 18
FILE LAST UPDATED: 26 Oct 2008 (20081026/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l56
L57   1 L56

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1   STRUCTURE UPLOADED
L2   0 S L1
L3   14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4   3 S L3
L5   1 S L4 AND LIM, Z?/AU
L6   2 S L4 NOT L5
L7   0 S L6 AND WANG, H?/AU
L8   0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9   0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10   STRUCTURE UPLOADED
L11   3 S L10
L12   66 S L10 FULL
L13   66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14   1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15   0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16   STRUCTURE UPLOADED
L17   3 S L16
L18   69 S L16 FULL
L19   69 S L18 NOT L3
L20   3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008

Updated Search

stn

```
L21           1 S L20

     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22           0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23             STRUCTURE UPLOADED
L24           0 S L23
L25          18 S L23 FULL
L26          18 S L25 NOT L13
L27          18 S L25 NOT L3
L28          18 S L27 NOT L18

     FILE 'HCAPLUS' ENTERED AT 00:45:00 ON 27 OCT 2008
L29           1 S L28
L30           0 S L29  NOT L21

     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
L31             STRUCTURE UPLOADED
L32           1 S L31
L33          23 S L31 FULL
L34          23 S L33 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:47:19 ON 27 OCT 2008
L35          12 S L34
L36          11 S L35 NOT L14
L37           9 S L36 NOT L4
L38           0 S L37 AND LIM, Z?/AU
L39           0 S L37 AND WANG, H?/AU
L40           0 S L37 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:53:34 ON 27 OCT 2008
L41           0 S L34

     FILE 'REGISTRY' ENTERED AT 00:53:39 ON 27 OCT 2008
L42             STRUCTURE UPLOADED
L43           1 S L42
L44          74 S L42 FULL
L45          74 S L44 NOT L34
L46          74 S L45 NOT L19
L47          74 S L46 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:55:54 ON 27 OCT 2008
L48          13 S L47
L49           3 S L48 NOT L35
L50           0 S L49 AND LIM, Z?/AU
L51           0 S L49 AND WANG, H?/AU

     FILE 'CAOLD' ENTERED AT 00:57:13 ON 27 OCT 2008
L52           0 S L47

     FILE 'REGISTRY' ENTERED AT 00:57:20 ON 27 OCT 2008
L53             STRUCTURE UPLOADED
L54           0 S L53
L55           7 S L53 FULL
L56           7 S L55 NOT L47
```

Updated Search

stn

```
     FILE 'HCAPLUS' ENTERED AT 00:59:01 ON 27 OCT 2008
L57           1 S L56

=> s l57 not l29
L58           0 L57 NOT L29

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       2.69    1401.37

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00     -13.60

FILE 'REGISTRY' ENTERED AT 00:59:15 ON 27 OCT 2008
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STRUCTURE FILE UPDATES:   24 OCT 2008  HIGHEST RN 1065816-63-8
DICTIONARY FILE UPDATES:  24 OCT 2008  HIGHEST RN 1065816-63-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\e-Red
Folder\10524345\sadfaerat.str

L59     STRUCTURE UPLOADED

=> s l59
SAMPLE SEARCH INITIATED 01:00:27 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       52 TO ITERATE

100.0% PROCESSED       52 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
```

Updated Search

```
stn


PROJECTED ITERATIONS:          608 TO     1472
PROJECTED ANSWERS:               0 TO        0

L60           0 SEA SSS SAM L59

=> s l59 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 01:00:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     1051 TO ITERATE

100.0% PROCESSED     1051 ITERATIONS                                 2 ANSWERS
SEARCH TIME: 00.00.01

L61           2 SEA SSS FUL L59

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1              STRUCTURE UPLOADED
L2            0 S L1
L3           14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4            3 S L3
L5            1 S L4 AND LIM, Z?/AU
L6            2 S L4 NOT L5
L7            0 S L6 AND WANG, H?/AU
L8            0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9            0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10             STRUCTURE UPLOADED
L11           3 S L10
L12          66 S L10 FULL
L13          66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14           1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15           0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16             STRUCTURE UPLOADED
L17           3 S L16
L18          69 S L16 FULL
L19          69 S L18 NOT L3
L20           3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21           1 S L20



Updated Search
```

stn

```
     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22           0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23             STRUCTURE UPLOADED
L24           0 S L23
L25          18 S L23 FULL
L26          18 S L25 NOT L13
L27          18 S L25 NOT L3
L28          18 S L27 NOT L18

     FILE 'HCAPLUS' ENTERED AT 00:45:00 ON 27 OCT 2008
L29           1 S L28
L30           0 S L29  NOT L21

     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
L31             STRUCTURE UPLOADED
L32           1 S L31
L33          23 S L31 FULL
L34          23 S L33 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:47:19 ON 27 OCT 2008
L35          12 S L34
L36          11 S L35 NOT L14
L37           9 S L36 NOT L4
L38           0 S L37 AND LIM, Z?/AU
L39           0 S L37 AND WANG, H?/AU
L40           0 S L37 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:53:34 ON 27 OCT 2008
L41           0 S L34

     FILE 'REGISTRY' ENTERED AT 00:53:39 ON 27 OCT 2008
L42             STRUCTURE UPLOADED
L43           1 S L42
L44          74 S L42 FULL
L45          74 S L44 NOT L34
L46          74 S L45 NOT L19
L47          74 S L46 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:55:54 ON 27 OCT 2008
L48          13 S L47
L49           3 S L48 NOT L35
L50           0 S L49 AND LIM, Z?/AU
L51           0 S L49 AND WANG, H?/AU

     FILE 'CAOLD' ENTERED AT 00:57:13 ON 27 OCT 2008
L52           0 S L47

     FILE 'REGISTRY' ENTERED AT 00:57:20 ON 27 OCT 2008
L53             STRUCTURE UPLOADED
L54           0 S L53
L55           7 S L53 FULL
L56           7 S L55 NOT L47
```

Updated Search

```
stn


     FILE 'HCAPLUS' ENTERED AT 00:59:01 ON 27 OCT 2008
L57            1 S L56
L58            0 S L57 NOT L29

     FILE 'REGISTRY' ENTERED AT 00:59:15 ON 27 OCT 2008
L59              STRUCTURE UPLOADED
L60            0 S L59
L61            2 S L59 FULL

=> s l61 not l57
L62           0 L61 NOT L57

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\e-Red
Folder\10524345\araty.str

L63     STRUCTURE UPLOADED

=> s l63
SAMPLE SEARCH INITIATED 01:02:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       65 TO ITERATE

100.0% PROCESSED       65 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          817 TO     1783
PROJECTED ANSWERS:               0 TO        0

L64            0 SEA SSS SAM L63

=> s l63 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 01:02:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     1581 TO ITERATE

100.0% PROCESSED     1581 ITERATIONS                                2 ANSWERS
SEARCH TIME: 00.00.01

L65            2 SEA SSS FUL L63

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1               STRUCTURE UPLOADED
L2             0 S L1
L3            14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4             3 S L3
L5             1 S L4 AND LIM, Z?/AU
L6             2 S L4 NOT L5



Updated Search
```

stn

```
L7            0 S L6 AND WANG, H?/AU
L8            0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9            0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10             STRUCTURE UPLOADED
L11           3 S L10
L12          66 S L10 FULL
L13          66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14           1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15           0 S L13

     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16             STRUCTURE UPLOADED
L17           3 S L16
L18          69 S L16 FULL
L19          69 S L18 NOT L3
L20           3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21           1 S L20

     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22           0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23             STRUCTURE UPLOADED
L24           0 S L23
L25          18 S L23 FULL
L26          18 S L25 NOT L13
L27          18 S L25 NOT L3
L28          18 S L27 NOT L18

     FILE 'HCAPLUS' ENTERED AT 00:45:00 ON 27 OCT 2008
L29           1 S L28
L30           0 S L29  NOT L21

     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
L31             STRUCTURE UPLOADED
L32           1 S L31
L33          23 S L31 FULL
L34          23 S L33 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:47:19 ON 27 OCT 2008
L35          12 S L34
L36          11 S L35 NOT L14
L37           9 S L36 NOT L4
L38           0 S L37 AND LIM, Z?/AU
L39           0 S L37 AND WANG, H?/AU
L40           0 S L37 AND ZHOU, Y?/AU
```

Updated Search

stn

```
     FILE 'CAOLD' ENTERED AT 00:53:34 ON 27 OCT 2008
L41           0 S L34

     FILE 'REGISTRY' ENTERED AT 00:53:39 ON 27 OCT 2008
L42             STRUCTURE UPLOADED
L43           1 S L42
L44          74 S L42 FULL
L45          74 S L44 NOT L34
L46          74 S L45 NOT L19
L47          74 S L46 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:55:54 ON 27 OCT 2008
L48          13 S L47
L49           3 S L48 NOT L35
L50           0 S L49 AND LIM, Z?/AU
L51           0 S L49 AND WANG, H?/AU

     FILE 'CAOLD' ENTERED AT 00:57:13 ON 27 OCT 2008
L52           0 S L47

     FILE 'REGISTRY' ENTERED AT 00:57:20 ON 27 OCT 2008
L53             STRUCTURE UPLOADED
L54           0 S L53
L55           7 S L53 FULL
L56           7 S L55 NOT L47

     FILE 'HCAPLUS' ENTERED AT 00:59:01 ON 27 OCT 2008
L57           1 S L56
L58           0 S L57 NOT L29

     FILE 'REGISTRY' ENTERED AT 00:59:15 ON 27 OCT 2008
L59             STRUCTURE UPLOADED
L60           0 S L59
L61           2 S L59 FULL
L62           0 S L61 NOT L57
L63             STRUCTURE UPLOADED
L64           0 S L63
L65           2 S L63 FULL

=> s l65 not l56
L66           2 L65 NOT L56

=> file hcaplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 358.10    1759.47

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00     -13.60

FILE 'HCAPLUS' ENTERED AT 01:02:29 ON 27 OCT 2008
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```

Updated Search

stn

FILE COVERS 1907 - 27 Oct 2008 VOL 149 ISS 18
FILE LAST UPDATED: 26 Oct 2008 (20081026/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

```
=> s l65
L67          1 L65

=> d his

     (FILE 'HOME' ENTERED AT 00:30:07 ON 27 OCT 2008)

     FILE 'REGISTRY' ENTERED AT 00:30:14 ON 27 OCT 2008
L1             STRUCTURE UPLOADED
L2           0 S L1
L3          14 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 00:34:08 ON 27 OCT 2008
L4           3 S L3
L5           1 S L4 AND LIM, Z?/AU
L6           2 S L4 NOT L5
L7           0 S L6 AND WANG, H?/AU
L8           0 S L6 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:34:58 ON 27 OCT 2008
L9           0 S L3

     FILE 'REGISTRY' ENTERED AT 00:35:09 ON 27 OCT 2008
L10            STRUCTURE UPLOADED
L11          3 S L10
L12         66 S L10 FULL
L13         66 S L12 NOT L3

     FILE 'HCAPLUS' ENTERED AT 00:38:27 ON 27 OCT 2008
L14          1 S L13

     FILE 'CAOLD' ENTERED AT 00:38:49 ON 27 OCT 2008
L15          0 S L13
```

Updated Search

stn

```
     FILE 'REGISTRY' ENTERED AT 00:38:55 ON 27 OCT 2008
L16             STRUCTURE UPLOADED
L17           3 S L16
L18          69 S L16 FULL
L19          69 S L18 NOT L3
L20           3 S L19 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:41:23 ON 27 OCT 2008
L21           1 S L20

     FILE 'CAOLD' ENTERED AT 00:41:37 ON 27 OCT 2008
L22           0 S L20

     FILE 'REGISTRY' ENTERED AT 00:41:44 ON 27 OCT 2008
L23             STRUCTURE UPLOADED
L24           0 S L23
L25          18 S L23 FULL
L26          18 S L25 NOT L13
L27          18 S L25 NOT L3
L28          18 S L27 NOT L18

     FILE 'HCAPLUS' ENTERED AT 00:45:00 ON 27 OCT 2008
L29           1 S L28
L30           0 S L29  NOT L21

     FILE 'REGISTRY' ENTERED AT 00:45:12 ON 27 OCT 2008
L31             STRUCTURE UPLOADED
L32           1 S L31
L33          23 S L31 FULL
L34          23 S L33 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:47:19 ON 27 OCT 2008
L35          12 S L34
L36          11 S L35 NOT L14
L37           9 S L36 NOT L4
L38           0 S L37 AND LIM, Z?/AU
L39           0 S L37 AND WANG, H?/AU
L40           0 S L37 AND ZHOU, Y?/AU

     FILE 'CAOLD' ENTERED AT 00:53:34 ON 27 OCT 2008
L41           0 S L34

     FILE 'REGISTRY' ENTERED AT 00:53:39 ON 27 OCT 2008
L42             STRUCTURE UPLOADED
L43           1 S L42
L44          74 S L42 FULL
L45          74 S L44 NOT L34
L46          74 S L45 NOT L19
L47          74 S L46 NOT L13

     FILE 'HCAPLUS' ENTERED AT 00:55:54 ON 27 OCT 2008
L48          13 S L47
L49           3 S L48 NOT L35
L50           0 S L49 AND LIM, Z?/AU
L51           0 S L49 AND WANG, H?/AU
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Updated Search

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stn


     FILE 'CAOLD' ENTERED AT 00:57:13 ON 27 OCT 2008
L52           0 S L47

     FILE 'REGISTRY' ENTERED AT 00:57:20 ON 27 OCT 2008
L53             STRUCTURE UPLOADED
L54           0 S L53
L55           7 S L53 FULL
L56           7 S L55 NOT L47

     FILE 'HCAPLUS' ENTERED AT 00:59:01 ON 27 OCT 2008
L57           1 S L56
L58           0 S L57 NOT L29

     FILE 'REGISTRY' ENTERED AT 00:59:15 ON 27 OCT 2008
L59             STRUCTURE UPLOADED
L60           0 S L59
L61           2 S L59 FULL
L62           0 S L61 NOT L57
L63             STRUCTURE UPLOADED
L64           0 S L63
L65           2 S L63 FULL
L66           2 S L65 NOT L56

     FILE 'HCAPLUS' ENTERED AT 01:02:29 ON 27 OCT 2008
L67           1 S L65

=> s l67 not l57
L68          0 L67 NOT L57
```

Updated Search